

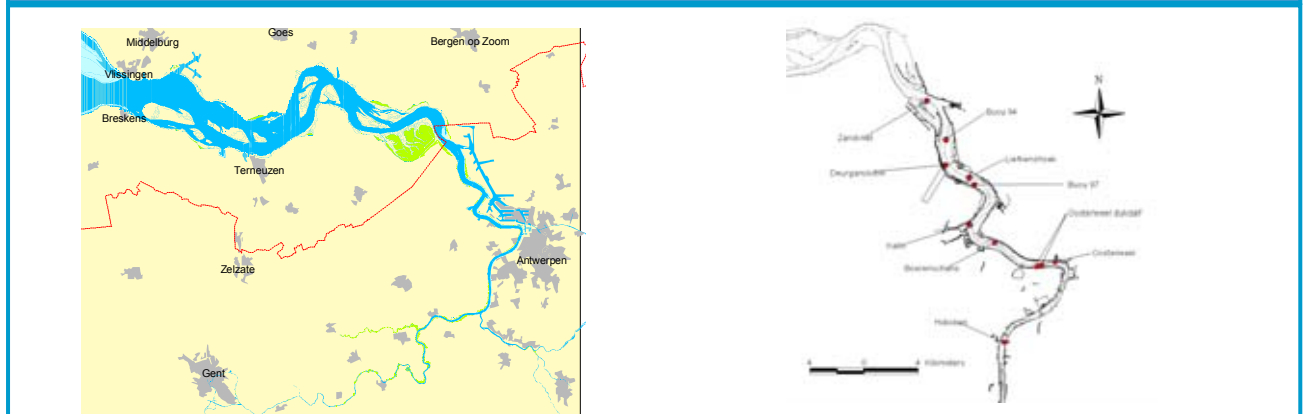


MINISTERIE VAN DE VLAAMSE GEMEENSCHAP  
DEPARTEMENT LEEFMILIEU EN INFRASTRUCTUUR  
ADMINISTRATIE WATERWEGEN EN ZEEWEZEN

AFDELING WATERBOUWKUNDIG LABORATORIUM EN  
HYDROLOGISCH ONDERZOEK

Uitbreiding studie denstiteitsstromingen in de  
Beneden Zeeschelde in het kader van LTV  
Meetcampagne naar hooggeconcentreerde  
slibsuspensies  
Bestek 16EB/04/13

The Scheldt Estuary and the Measurement Locations



Deelrapport 5.2 : Omgevingscondities juli – december 2005  
Report 5.2: Overview of ambient conditions in the river Scheldt  
July – December 2005

7 juni 06  
I/RA/11265/05.019/MSA



International Marine and Dredging Consultants (IMDC)  
Wilrijkstraat 37-45 Bus 4 - 2140 Antwerpen – België  
tel: +32.3.270.92.95 - fax: +32.3.235.67.11  
E-mail : info@imdc.be

## Document control sheet

### Document Identification

<b>Title:</b>	Deelrapport 5.2 : Omgevingscondities juli - december 2005 Report 5.2: Ambient conditions July – December 2005
<b>Project:</b>	Uitbreiding studie denstiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Field measurements : high-concentration benthic suspensions (HCBS)
<b>Client:</b>	Afdeling Waterbouwkundig Laboratorium en Hydrologisch Onderzoek
<b>File reference:</b>	I/RA/11265/05.019/MSA
<b>File name:</b>	K:\PROJECTS\11\11265 - Meetcampagne HCBS\10-Rap\RA05019_langdurigeMeting_sem2\Ra05019_langdurigeMetingen_jul_dec_v10.doc

### Revisions

Version	Date	Author	Description
2.0	07/06/06	SRI	Final version
1.0	01/06/06	SRI	Concept

### Distribution list

Name	# ex.	Company/Authorities	Position in reference to the project
2.0	10	Afdeling Waterbouwkundig Laboratorium en Hydrologisch Onderzoek	
2.0	Digital	Afdeling Waterbouwkundig Laboratorium en Hydrologisch Onderzoek	
1.0	Digital	Afdeling Waterbouwkundig Laboratorium en Hydrologisch Onderzoek	

### Approval

Version	Date	Author	Project manager	Commissioner
2.0	07/06/06	SRI	MSA	MSA
1.0	01/06/06	SRI	MSA	MSA

## INHOUDSTAFEL

<b>1. INTRODUCTION .....</b>	<b>1</b>
1.1. THE ASSIGNMENT .....	1
1.2. PURPOSE OF THE STUDY .....	1
1.3. OVERVIEW OF THE STUDY .....	2
1.4. SPECIFIC OBJECTIVES OF THIS REPORT .....	2
<b>2. MEASUREMENTS .....</b>	<b>4</b>
2.1. OVERVIEW OF THE HCBS MEASUREMENTS .....	4
2.2. DESCRIPTION OF THE DATA .....	7
2.2.1. <i>Parameters and equipment</i> .....	7
2.2.2. <i>Overview of the data acquisition</i> .....	10
2.3. PROCESSING OF DATASETS .....	10
2.3.1. <i>Methodology of Processing</i> .....	10
2.3.2. <i>Results (weekly)</i> .....	11
2.3.3. <i>Results (monthly)</i> .....	11
2.3.4. <i>Total results (September 2005 – December 2005)</i> .....	11
<b>3. AMBIENT CONDITIONS.....</b>	<b>12</b>
3.1. ENVIRONMENTAL CHARACTERISTICS IN THE BENEDEN ZEESCHELDE.....	12
3.1.1. <i>Measurements</i> .....	12
3.1.2. <i>Vertical tide</i> .....	18
3.1.3. <i>Salinity downstream</i> .....	18
3.2. FRESH WATER INFLOW FROM THE TRIBUTARIES .....	18
3.3. METEOROLOGICAL DATA .....	18
3.4. HUMAN ACTIVITIES .....	18
3.4.1. <i>Dredging activities</i> .....	18
3.4.2. <i>Navigation</i> .....	19
<b>4. REFERENCES.....</b>	<b>20</b>

## APPENDICES

<b>APPENDIX A. TECHNICAL DETAILS AANDERAA RCM-9 .....</b>	<b>A-1</b>
<b>APPENDIX B. LONG TERM MEASUREMENTS HCBS MEASUREMENT CAMPAIGN..</b>	<b>B-1</b>
B.1 CALIBRATION CURVES TURBIDITY VS. SUSPENDED SEDIMENT CONCENTRATION .....	B-2
B.2 DATASHEETS WEEK SERIES .....	B-5
B.2.1. <i>Frames placed upright Buoy 84: 13/10/2005 – 14/11/2005 Buoy 97: 13/10/2005 – 31/12/200</i> .....	B-5
B.2.2. <i>Tilted frames Buoy 84: 21/09/2005 – 13/10/2005 &amp; 14/11/2005 – 31/12/2005 Buoy 97: 20/09/2005 – 13/10/2005</i> .....	B-38
B.3 MONTHLY RESULTS MINIMUM, MAXIMUM AND AVERAGE OF VELOCITY MAGNITUDE, TEMPERATURE, SALINITY AND SUSPENDED SEDIMENT CONCENTRATION .....	B-70
B.4 TOTAL RESULT FROM SEPTEMBER 2005 TILL DECEMBER 2005 OF VELOCITY MAGNITUDE, TEMPERATURE, SALINITY AND SUSPENDED SEDIMENT CONCENTRATION .....	B-11
<b>APPENDIX C. LONG TERM MEASUREMENTS (TV SAM 2005).....</b>	<b>C-1</b>
C.1 CALIBRATION CURVES TURBIDITY VS SUSPENDED SEDIMENT CONCENTRATION .....	C-2
C.2 DATASHEETS WEEK SERIES .....	C-6

C.2.1.	July – September.....	C-6
C.2.2.	October – November (Processed for the HCBS measurement campaign).....	C-97
C.3	RESULTS MONTHLY MINIMUM, MAXIMUM AND AVERAGE VELOCITY MAGNITUDE, TEMPERATURE, SALINITY & SUSPENDED SEDIMENT CONCENTRATION (TURBIDITY FOR “WLH” LOCATIONS) (LONG TERM MEASUREMENTS)C-1	
<b>APPENDIX D.</b>	<b>MONTHLY RESULTS: MINIMUM, MAXIMUM AND AVERAGE SALINITY AT BAALHOEK AND HOOFDPLAAT FOR THE PERIOD 01/07/2005 – 31/12/2005 .....</b>	<b>D-1</b>
<b>APPENDIX E.</b>	<b>FRESH WATER DISCHARGE.....</b>	<b>E-3</b>
<b>APPENDIX F.</b>	<b>MONTHLY RESULTS METEOROLOGICAL MEASUREMENTS AT DEURNE .....</b>	<b>F-1</b>
<b>APPENDIX G.</b>	<b>OVERVIEW OF MAINTENANCE -DREDGING ACTIVITIES 01/07/2005 – 31/12/2005 .....</b>	<b>G-1</b>
<b>APPENDIX H.</b>	<b>NAVIGATION.....</b>	<b>H-1</b>
H.1	DESCRIPTION OF THE AREAS.....	H-1
H.2	WEEKLY DATA .....	H-4

## LIJST VAN TABELLEN

TABLE 2-1:MEASUREMENT LOCATIONS AND PERIODS FOR THE HCBS MEASUREMENTS (01/01/2005 – 31/12/2005)4	
TABLE 2-2: THE EQUIPMENT AND MEASURED PARAMETERS PER LOCATION (HCBS MEASUREMENTS, 01/07/2005 – 31/12/2005) .....	9
TABLE 2-3: CHRONOLOGICAL OVERVIEW OF THE RCM-9 MEASUREMENTS .....	10
TABLE 3-1: MEASUREMENT LOCATIONS AND PERIODS FOR THE OOSTERWHEEL TUNNEL PROJECT.....	12
TABLE 3-2: CHRONOLOGICAL OVERVIEW OF THE OOSTERWHEEL TUNNEL PROJECT MEASUREMENTS (01/07/2005 - 31/12/2005) .....	15
TABLE 3-3: THE EQUIPMENT AND MEASURED PARAMETERS PER LOCATION (OOSTERWHEEL TUNNEL PROJECT) .....	17

## LIJST VAN FIGUREN

FIGURE 2-1: THE HCBS MEASUREMENT LOCATIONS IN THE BENEDEN ZEESCHELDE (01/01/2005 – 31/12/2005) ...	7
FIGURE 2-2: SET-UP OF A FRAME WITH TWO RCM9's.....	8
FIGURE 3-1: OOSTERWHEEL TUNNEL PROJECT - THE MEASUREMENT LOCATIONS .....	13
FIGURE 3-2: OVERVIEW OF THE MEASUREMENT LOCATIONS (HCBS MEASUREMENTS AND OOSTERWHEEL TUNNEL PROJECT – 01/01/2005 – 31/12/2005).....	14

## 1. INTRODUCTION

### 1.1. The assignment

This report is part of the set of reports describing the results of the study "Extension of the study about density currents in the Beneden Zeeschelde as part of the Long Term Vision for the Scheldt estuary – Field measurements high-concentration benthic suspensions (HCBS)<sup>1</sup>.

The terms of reference for this study were prepared by the 'Administratie Waterwegen en Zeewezen, Afdeling Waterbouwkundig Laboratorium en Hydrologisch Onderzoek' (16EB/04/13). The study was awarded to International Marine and Dredging Consultants NV in association with WL|Delft Hydraulics, dr. R. Kirby and Gems International on 03/12/2004.

Afdeling Waterbouwkundig Laboratorium en Hydrologisch Onderzoek' – Cel Hydrometrie Schelde provided data on discharge, tide, salinity and turbidity along the river Scheldt and provided a survey vessel for the measurements at Liefkenshoek.

The settling velocity measurements with INSSEV were subcontracted to the Coastal Processes Research Group (SEOES, University of Plymouth), with team leader Dr Andrew Manning.

### 1.2. Purpose of the study

The Lower Sea Scheldt (Beneden Zeeschelde) is the stretch of the Scheldt estuary between the Belgium-Dutch border and Rupelmonde, where the entrance channels to the Antwerp sea locks are located. The navigation channel has a sandy bed, whereas the shallower areas (intertidal areas, mud flats, salt marshes) consist of sandy clay or even pure mud sometimes. This part of the Scheldt is characterized by large horizontal salinity gradients and the presence of a turbidity maximum with depth-averaged concentrations ranging from 50 to 500 mg/l at grain sizes of 60 - 100  $\mu\text{m}$ . The salinity gradients generate significant density currents between the river and the entrance channels to the locks, causing large siltation rates. It is to be expected that in the near future also the Deurganckdok will suffer from such large siltation rates, which may double the amount of dredging material to be dumped in the Lower Sea Scheldt.

Another observation during the last years is that the composition of the sediment dredged at the Sill of Zandvliet became more muddy, resulting in a strong increase in dumping volumes at the allocated dumping sites since 2002.

To deal with these problems, and to facilitate the management of the Lower Sea Scheldt, more knowledge on the fine sediment dynamics is required. This can be obtained from in-situ measurements and the development of an advanced numerical sediment transport model.

In the past, already many surveys have been carried out to increase the understanding of the dynamics of fine sediment in the Lower Sea Scheldt. Also, salinity and turbidity is measured continuously at Prosperpolder and Oosterweel. However, none of these measurements have been carried out in the lower 1 m of the water column.

It is expected that temporary layers of soft mud may be formed in this lower part of the water column, which may move independently of the tidal water movement, in particular during slack water. These layers may be remixed during accelerating tide, an indication for which is the observation of mud clouds at the water surface during maximum ebb and flood velocities. If such

---

<sup>1</sup> Uitbreiding studie denstiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slib suspensies

layers exist, they may contribute significantly to the siltation rate in the Deurganckdok. This would imply that measures (for instance passive constructions) to minimize siltation in the Deurganckdok can only be successful if the dynamics of these soft mud layers are also affected. Therefore it is important to establish the role of these soft mud layers on the sediment dynamics in the Lower Sea Scheldt, both from a qualitative and quantitative point of view.

The goal of the study is threefold:

1. The primary goal of the study (and the survey is to detect the occurrence of near-bed high-concentration mud suspensions (referred to as **high-concentration benthic suspensions - HCBS**), their dynamic behaviour and the conditions and locations of their occurrence,
2. The second goal is to establish fluxes of fine sediment in the river with the purpose to calibrate a numerical 3D cohesive sediment transport model of the Lower Sea Scheldt,
3. The third goal is to establish the sediment properties required for the cohesive sediment transport model.

### 1.3. Overview of the study

The measurement campaign consists of two separated surveys. The first survey is a test survey to evaluate the suitability of the proposed instruments and procedures. This survey was originally planned in December 2004, but was executed, due to a limited time framework on 2-3 February 2005. The effective measurements had to be carried out prior to the opening of the Deurganckdok, which was originally scheduled on March 1, 2005, but which was realized on 18 February 2005. Therefore this survey was carried out 16-18 February 2005, referred to as the February-survey.

A further survey after opening of the Deurganckdok is scheduled in the second half of 2005. For this survey no activities are reported in this set of reports.

This report, report 5.1, is part of the set of reports, describing the study:

- Report 1 : Test survey 2-3 February 2005 (I/RA/11265/05.008/MSA)
- Report 2.1 : February survey – Deurganckdok 17 February 2005 (I/RA/11265/05.009/MSA)
- Report 2.2 : February survey – Zandvliet 17 February 2005 (I/RA/11265/05.010/MSA)
- Report 2.3 : February survey – Liefkenshoek 17 February 2005 (I/RA/11265/05.011/MSA)
- Report 2.4 : February survey – Schelle 17 February 2005 (I/RA/11265/05.012/MSA)
- Report 2.5 : February survey – Deurganckdok 16 February 2005 (I/RA/11265/05.013/MSA)
- Report 2.6 : February survey – Kallosluis 18 February 2005 (I/RA/11265/05.014/MSA)
- Report 2.7 : February survey – Near bed continuous monitoring (I/RA/11265/05.015/MSA)
- Report 3 : February survey – Settling velocity - INSSEV (I/RA/11265/05.016/MSA)
- Report 4 : February survey – Cohesive sediment properties (I/RA/11265/05.017/MSA)
- Report 5.1 : Overview of ambient conditions in the river Scheldt – January-June 2005 (I/RA/11265/05.018/MSA)
- Report 5.2 : Overview of ambient conditions in the river Scheldt – July-December 2005 (I/RA/11265/05.019/MSA)

### 1.4. Specific objectives of this report

The natural ambient conditions in the Scheldt estuary change from the mouth near Vlissingen to the upstream boundaries near Gent and the tributaries. Furthermore navigation and dredging activities are important human activities in the Beneden Zeeschelde.

For this reason this report summarises the following data for the second semester of 2005:

- Ambient characteristics in the Beneden Zeeschelde
  - Tide
  - Current
  - Salinity
  - Temperature
  - Turbidity/Suspended sediment concentration
  - Salinity downstream
- Fresh water inflow from the tributaries
- Meteorological conditions
- Human activities
  - Dredging/dumping
  - Navigation

The first chapter comprises an introduction. The second chapter summarizes the HCBS – measurements, while the ambient conditions are discussed in Chapter 3.

## 2. MEASUREMENTS

### 2.1. Overview of the HCBS measurements

Between the 1<sup>st</sup> of July and the 31<sup>st</sup> of December the measurements that took place as part of the HCBS measurements were long term measurements. These were executed near buoy 84 and buoy 97 and started the 21<sup>st</sup>, respectively the 20<sup>th</sup> of September. An overview of the measurement locations, depths and period of the instruments that were deployed is given in Table 2-1. In this table the measurements of the first semester are given as well. Figure 2-1 shows all measurement locations for the first and for the second semester of 2005.

Table 2-1: Measurement locations and periods for the HCBS measurements (01/01/2005 – 31/12/2005)

<b>JANUARY – JUNE 2005</b>					
<b>Through tide measurements</b>					
<i>Location</i>	<i>Easting (UTM ED 50)</i>		<i>Northing (UTM ED 50)</i>		<i>Period</i>
Kallo – Test (transect B)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	02/02/2005
	590901	591298	5678979	5679614	
Kallo – Test (transect C)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	02/02/2005
	590394	591389	5679678	5679874	
Kallo – Test (transect D)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	02/02/2005
	590542	590815	5680157	5680157	
Kallo – Test (transect E)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	02/02/2005
	590390	590423	5680214	5680456	
Kallo – Test (transect F)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	02/02/2005
	590999	591155	5680913	5680820	
Kallo – Test (transect G)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	02/02/2005
	591506	592214	5681824	5681310	



<i>Location</i>	<i>Easting (UTM ED 50)</i>		<i>Northing (UTM ED 50)</i>		<i>Period</i>
Deurganckdok – Test (transect I)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	03/02/2005
	590400	590556	5683474	5683860	
Deurganckdok – Test (transect J)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	03/02/2005
	589117	589395	5684243	5684489	
Deurganckdok – Test (transect K)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	03/02/2005
	588641	589014	5684987	5685122	
Deurganckdok – Test (transect L)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	03/02/2005
	588350	588977	5686088	5686088	
Deurganckdok – Test (transect M)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	03/02/2005
	588191	589627	5687088	5687088	
Deurganckdok (transect K)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	16/02/2005
	588484	589775	5684924	5685384	
Deurganckdok (transect L)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	16/02/2005
	588216	589639	5686088	589639	
Deurganckdok	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	17/02/2005
	588484	589775	5684924	5685383	
Zandvliet	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	17/02/2005
	586726	587757	5688355	5689950	
Liefkenshoek	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	17/02/2005
	590318	590771	5683302	5684257	
Schelle	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	17/02/2005 & 19/02/2005
	592645	592953	5665794	5665682	
Kallo (transect D)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	18/02/2005
	590435	591408	5680153	5680172	
Kallo (transect E)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	18/02/2005
	590386	590428	5680184	5680494	
Kallo (transect F)	<i>Left Bank</i>	<i>Right Bank</i>	<i>Left Bank</i>	<i>Right Bank</i>	18/02/2005
	590946	591596	5680947	5680542	

Near bed continuous monitoring					
Location	Easting (UTM ED 50)		Northing (UTM ED 50)		Period
Kallo	590767		5680652		03/02/2005 – 11/02/2005
Deurganckdok downstream	588653		5684906		17/02/2005 – 03/03/2005
Buoy 84	589050		5686088		12/03/2005 – 25/03/2005
Deurganckdok upstream	589100		5684230		24/05/2005 – 08/06/2005
Settling velocity – INSSEV					
Location	Easting (UTM ED 50)		Northing (UTM ED 50)		Period
Deurganckdok	5885578		5684793		17/02/2005 & 18/02/2005
Kallo	590683		5680551		19/02/2005
JULY – DECEMBER 2005					
Long term measurements					
Location	Easting (UTM ED 50)	Northing (UTM ED 50)	Depth of instrument		Period
			[m] depth above bottom	[m TAW]	
Buoy 84	588971	5686097	3.3	-5.6	21/09/2005 – 31/12/2005
Buoy 84	588971	5686097	0.8	-8.1	21/09/2005 – 31/12/2005
Buoy 97	590932	5683350	3.3	-5.3	20/09/2005 – 31/12/2005
Buoy 97	590932	5683350	0.8	-7.8	20/09/2005 – 31/12/2005

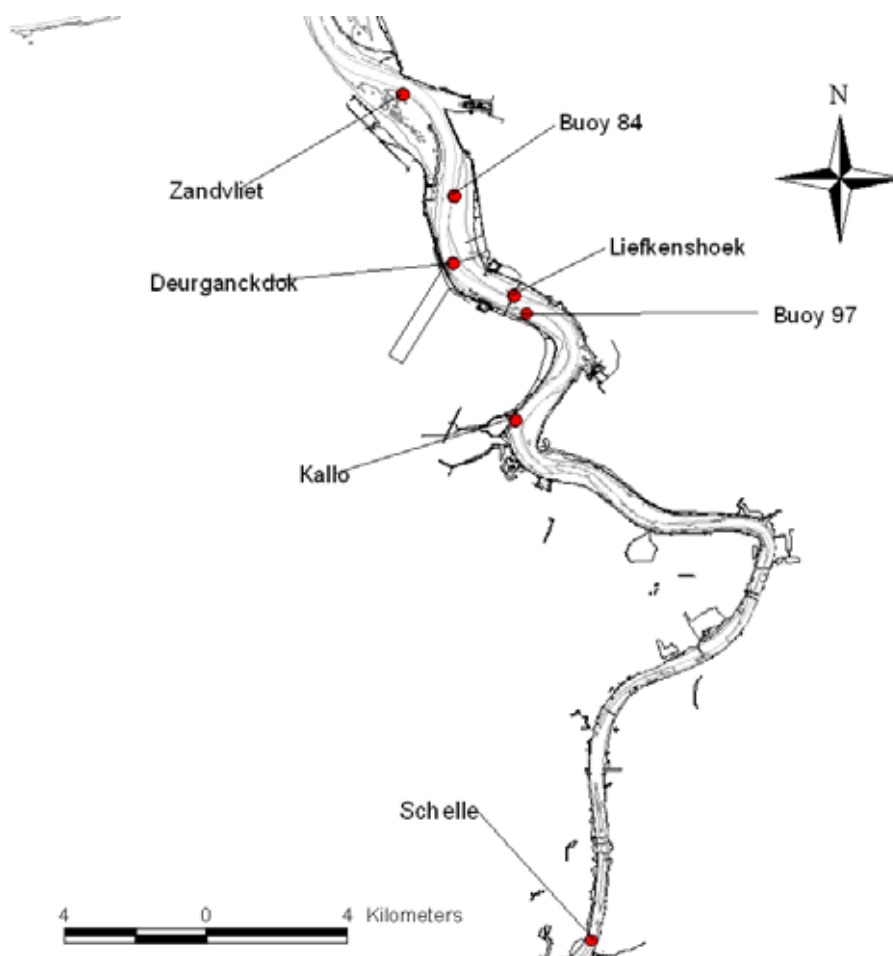


Figure 2-1: The HCBS measurement locations in the Beneden Zeeschelde (01/01/2005 – 31/12/2005)

## 2.2. Description of the data

### 2.2.1. Parameters and equipment

Stationary current, temperature, salinity and turbidity were measured using Aanderaa RCM-9's. A fixed set-up was used in which a steel frame was placed on the bottom. At both locations two RCM-9's were attached to the frame, above each other at a distance of 2.5 m. The lower RCM-9 was placed at 0.80 m above the bottom. A picture of the set-up is shown in Figure 2-2 and Table 2-2 gives an overview of the measured parameters and the depth at which these were registered. APPENDIX A gives technical details on the RCM-9.



*Figure 2-2: Set-up of a frame with two RCM9's*

The instruments were set up to measure every 10 minutes. All sensors (temperature, pressure, conductivity, turbidity, tilting) except the Doppler Current Profiler were set to record once every 10 minutes. The Doppler Current Profiler sent 600 pings during every 10 minute-interval and calculated the average value for current speed and direction over this interval. Data storage units in the instruments logged all the measured values.

Table 2-2: The equipment and measured parameters per location (HCBS measurements, 01/07/2005 – 31/12/2005)

Long-term measurements								
Location	Period	Instrument	Velocity	Direction	Temperature	Pressure	Conductivity	Turbidity
Buoy 84	21/09/2005 – 31/12/2005	Aanderaa RCM 9	-5.6m TAW					
		Aanderaa RCM 9	-8.1m TAW					
Buoy 97	20/09/2005 – 31/12/2005	Aanderaa RCM 9	-5.3m TAW					
		Aanderaa RCM 9	-7.8m TAW					

## 2.2.2. Overview of the data acquisition

A chronological overview of the measurements, per location and per instrument, is given in Table 2-3. An explanation for missing and faulty data is also given. As can be seen in the table there were some deployments where the frame tipped over. For these measurement periods the current velocity magnitude and direction can not be corrected, but nevertheless temperature, pressure, conductivity and turbidity are relevant. Based on the pressure readings the depth of the respective instrument was determined. So measured values of the parameters are valid at the corresponding depth.

Table 2-3: Chronological overview of the RCM-9 measurements

<b>Buoy 84 – 3.3 m above bottom</b>			
<i>Period</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comments</i>
21/09/2005 – 13/10/2005		X	Faulty current velocity and direction due to tipping of the frame
14/11/2005 – 31/12/2005		X	Faulty current velocity and direction due to tipping of the frame
<b>Buoy 84 – 0.8 m above bottom</b>			
<i>Period</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comments</i>
21/09/2005 – 13/10/2005		X	Faulty current velocity and direction due to tipping of the frame
14/11/2005 – 31/12/2005		X	Faulty current velocity and direction due to tipping of the frame
<b>Buoy 97 – 3.3 m above bottom</b>			
<i>Period</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comments</i>
20/09/2005 – 13/10/2005		X	Faulty current velocity and direction due to tipping of the frame
<b>Buoy 97 – 0.8 m above bottom</b>			
<i>Period</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comments</i>
20/09/2005 – 13/10/2005		X	Faulty current velocity and direction due to tipping of the frame

## 2.3. Processing of datasets

### 2.3.1. Methodology of Processing

The collected data was validated and outliers were removed. Erroneous measurements because of malfunction of sensors, growth on sensors, instrument failure were also removed from the dataset and are documented in 2.2.2.

Salinity was calculated using the temperature, conductivity and pressure in the pps-78 formula (Unesco, 1991 & IMDC, 2002).

Turbidity values were converted to suspended sediment concentration using the equation of the calibration curve.

1 litre samples from the calibration mixture were filtered over a preweighed desiccated 0.45 micron filter, after which the filter was dried in an oven at 105°C, cooled and weighed to determine the suspended sediment concentration. The calibration curve for each instrument is shown in APPENDIX B.1. Each graph is titled with the serial number of each RCM-9. The location of each RCM-9 is also shown in APPENDIX B.1.

The bias of the turbidity sensors was tested by submerging each turbidity sensor in clean water at almost every redeployment.

### **2.3.2. Results (weekly)**

Measurements are visualized per instrument, location and per week in APPENDIX B.2.

- The title shows the location and the week number followed by the year
- The first graph shows the current velocity and the current direction. The direction is scaled from 0 to 400 degrees, for convenience
- The second graph depicts the salinity and temperature
- The third and last graph shows the waterlevel at the nearest tidal gauge and the suspended sediment concentration

All times are given in MET.

A distinction is made between the deployments where the frames stood upright (APPENDIX B.2.1) and the deployments where the frames tipped over (APPENDIX B.2.2). For these last weekseries the first graph shows the temperature, the second the salinity and the third the waterlevel together with the suspended sediment concentration. Notice that the depth of the instruments changes at every deployment.

### **2.3.3. Results (monthly)**

Monthly results are reported in APPENDIX B.3. The minimum, maximum and average value for velocity magnitude, temperature and suspended sediment concentration is given for every month. For salinity the minimum, maximum and mean are calculated for both high water slack and low water slack. Again a distinction is made between deployments with upright placed frames and deployments with tipped frames.

### **2.3.4. Total results (September 2005 – December 2005)**

The results for the whole period are given in APPENDIX B.4. The minimum, maximum and average value for velocity magnitude, temperature and suspended sediment concentration (turbidity for "WLH" locations) is given for the period from September 2005 till December 2005. For salinity the minimum, maximum and mean are calculated for both high water slack and low water slack is given.

These results are only given for the frames that stood upright.

### 3. AMBIENT CONDITIONS

#### 3.1. Environmental characteristics in the Beneden Zeeschelde

##### 3.1.1. Measurements

Beside the HCBS measurements also other long term measurements were executed in the Beneden Zeeschelde during the 2<sup>nd</sup> semester of 2005. These measurements were set up for the Oosterweel tunnel project and took place at Boerenschans, Hoboken and Oosterweel. In Table 3-1 an overview is given of the coordinates of the measurement locations and the period when data was gathered. In this table "OWV" and "WLH" – locations are mentioned. This refers to whether or not the location was set up specifically for the Oosterweel tunnel project. In case of an OWV – location the set up was specifically. In case of a WLH – location set up and maintenance occurred on a regular basis by WLH – Cel Hydrometrie Schelde. Figure 3-1 and Figure 3-2 show an overview of the measurement locations.

A detailed description of the measurement campaigns can be found in TV SAM 2005.

For the Oosterweel tunnel project the data was processed up to September 2005. But since the data of October until December was available, it was processed within the scope of this project. The results are presented in APPENDIX C.

Table 3-1: Measurement locations and periods for the Oosterweel tunnel project

Long-term measurements				
OWV – locations				
Location	Depth sensor	Easting (UTM ED 50)	Northing (UTM ED 50)	Period
Boerenschans	4m above bottom (-5.0m TAW)	592455	5679055	01/07/2005 – 31/12/2005
Boerenschans	2m above bottom (-7.0m TAW)	592455	5679055	01/07/2005 – 31/12/2005
Hoboken	2m above bottom (-5.0m TAW)	593260	5671760	01/07/2005 – 31/12/2005
Oosterweel (right bank)	4m above bottom (-7.0m TAW)	596900	5677726	01/07/2005 – 31/12/2005
Oosterweel (right bank)	2m above bottom (-9.0m TAW)	596900	5677726	01/07/2005 – 31/12/2005



WLH – locations				
<i>Location</i>	<i>Depth sensor</i>	<i>Easting (UTM ED 50)</i>	<i>Northing (UTM ED 50)</i>	<i>Period</i>
Oosterweel (left bank)	4.5m above bottom (-2.3m TAW)	595574	5677278	01/07/2005 – 31/12/2005
Oosterweel (left bank)	1m above bottom (-5.8m TAW)	595574	5677278	01/07/2005 – 31/12/2005

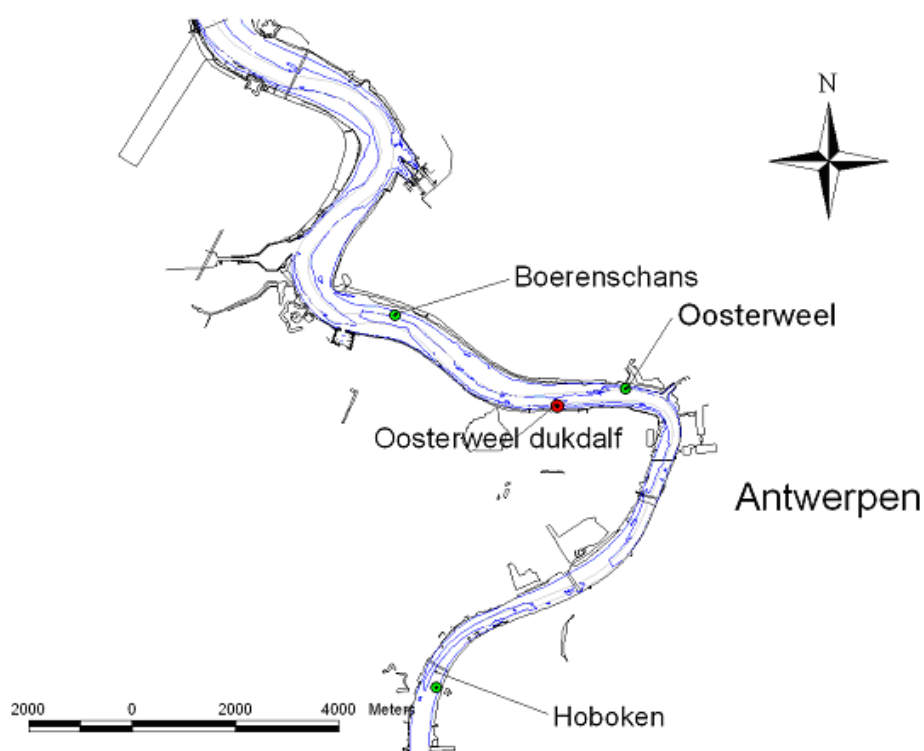


Figure 3-1: Oosterweel tunnel project - The measurement locations

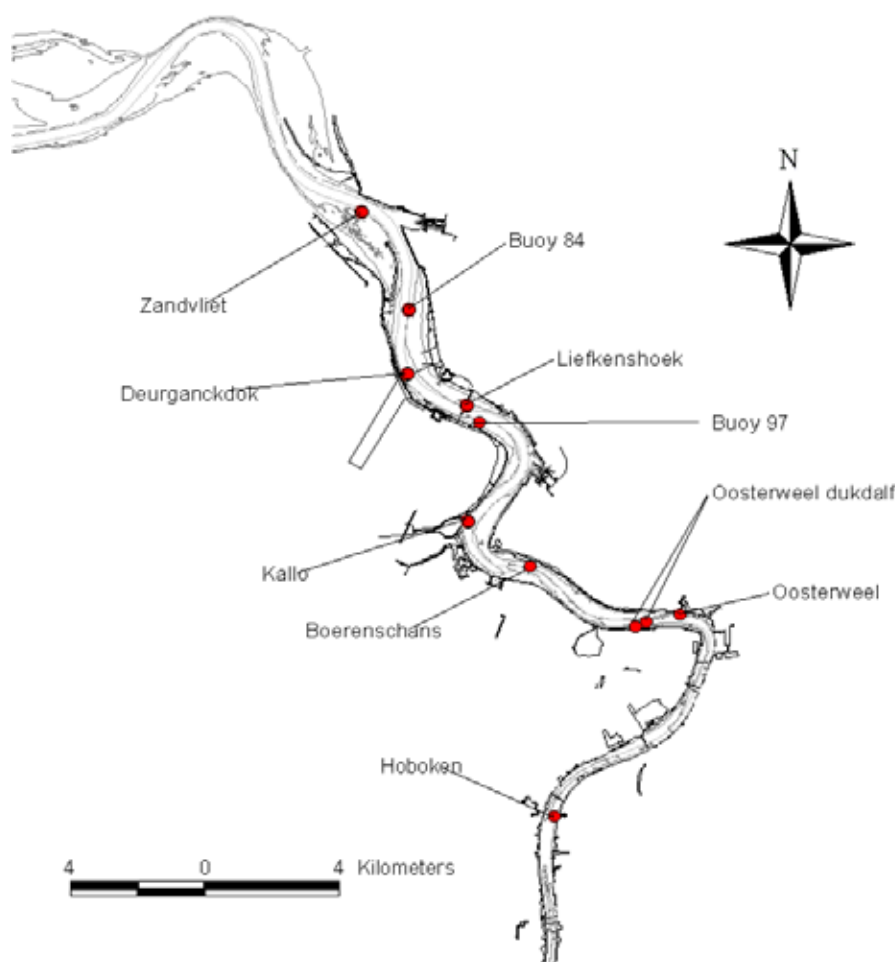


Figure 3-2: Overview of the measurement locations (HCBS measurements and Oosterweel tunnel project – 01/01/2005 – 31/12/2005)

The data that was gathered during these long term measurements is current velocity, current direction, temperature, pressure and turbidity. In APPENDIX C.2.1 the processed data is visualized per instrument, location and per week for July until September. APPENDIX C.2.2 gives the same for October until December.

- The title shows the location and the week number followed by the year
- The first graph shows the current velocity and the current direction. The direction is scaled from 0 to 400 degrees, for convenience
- The second graph depicts the salinity and temperature
- The third and last graph shows the water level at the nearest tidal gauge and the suspended sediment concentration (or turbidity for WLH – locations)

All times are given in MET.

To convert the turbidity values to suspended sediment concentration (for OWL – locations) the equation of the calibration curve was used. 1 litre samples from the calibration mixture were filtered over a preweighed desiccated 0.45 micron filter, after which the filter was dried in an oven at 105°C, cooled and weighed to determine the suspended sediment concentration. The calibration curve for each instrument is also shown in APPENDIX C.

An overview of the measurements and an explanation of missing and faulty data for the whole period is given in Table 3-2.

*Table 3-2: Chronological overview of the Oosterweel tunnel project measurements  
(01/07/2005 - 31/12/2005)*

<b>OWV Locations</b>				
<b>Boerenschans – 4 meter above bottom / Deployment : 09/07/2004</b>				
<i>Period</i>	<i>Sensor</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comment</i>
01/07/2005	1166			Start measurement period
01/07/2005 – 29/07/2005	1166		X	Temperature above range sensor
14/07/2005 – 29/07/2005	1166		X	Growth on turbidity sensor
24/09/2005 – 05/11/2005	1166		X	Growth on turbidity sensor
05/11/2005 – 22/11/2005	1166	X		No battery
23/11/2005 – 31/12/2005	1169		X	Conductivity sensor failing beneath 0.7mS/cm
<b>Boerenschans – 2 meter above bottom / Deployment : 09/07/2004</b>				
<i>Period</i>	<i>Sensor</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comment</i>
01/07/2005	1169			Start measurement period
01/07/2005 – 29/07/2005	1169	X		Missing data
13/09/2005 – 22/11/2005	1169	X		No battery
23/11/2005 – 31/12/2005	1166		X	Conductivity sensor failing beneath 0.7mS/cm
<b>Hoboken –2 meter above bottom / Deployment: 07/07/2004</b>				
<i>Period</i>	<i>Sensor</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comment</i>
01/07/2005	1170			Start measurement period
10/10/2005 – 25/11/2005	1170		X	Turbidity sensor failing
25/11/2005 – 31/12/2005	1170		X	Conductivity sensor failing beneath 0.7mS/cm
<b>Oosterweel – 4 meter above bottom / Deployment : 09/07/2004</b>				
<i>Period</i>	<i>Sensor</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comment</i>
01/07/2005	1168			Start measurement period
01/07/2005 – 09/09/2005	1168		X	Conductivity sensor failing beneath 0.7mS/cm
05/11/2005 – 08/11/2005	1168	X		No battery

<b>Oosterweel – 2 meter above bottom / Deployment : 09/07/2004</b>				
<i>Period</i>	<i>Sensor</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comment</i>
01/07/2005	1171			Start measurement period
05/11/2005 – 08/11/2005	1171	X		No battery
<b>WLH Locations</b>				
<b>Oosterweel left bank – 4.5 m above bottom / Deployment 01/07/2004</b>				
<i>Period</i>	<i>Sensor</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comment</i>
01/07/2005	243			Start measurement period
01/07/2005 – 14/07/2005	243		X	Conductivity sensor failing
14/07/2005 – 28/07/2005	243	X		Data not delivered
25/07/2005 – 22/12/2005	243		X	Conductivity sensor failing
22/12/2005 – 31/12/2005	1117		X	Conductivity sensor failing
<b>Oosterweel left bank – 1 m above bottom / Deployment 01/07/2004</b>				
<i>Period</i>	<i>Sensor</i>	<i>No data</i>	<i>Faulty data</i>	<i>Comment</i>
01/07/2005	248			Start measurement period
14/07/2005 – 28/07/2005	248	X		Data not delivered
31/08/2005 – 15/09/2005	248	X		Data not delivered
23/11/2005 – 01/12/2005	248		X	Conductivity sensor failing
22/12/2005 – 24/12/2005	1153		X	Turbidity sensor failing
22/12/2005 – 31/12/2005	1153		X	Conductivity sensor failing
23/12/2005 – 24/12/2005	1153		X	Temperature sensor failing

Monthly results (minimum, maximum and average) are shown in APPENDIX C.3. The minimum, maximum and average value for velocity magnitude, temperature and suspended sediment concentration (turbidity for “WLH” locations) is given for every month. For salinity the minimum, maximum and mean are calculated for both high water slack and low water slack.

Additional an overview of the equipment per location is given in Table 3-3. Just as in Table 2-2 there is indicated which variables are measured and at which depth.

A detailed description of the data acquisition and the equipment can be found in TV SAM 2005.

Table 3-3: The equipment and measured parameters per location (Oosterweel tunnel project)

Long-term measurements								
OWV – locations								
Location	Period	Instrument	Velocity	Direction	Temperature	Pressure	Conductivity	Turbidity
Boerenschans	01/07/2005	Aanderaa RCM 9	-5.0m TAW					
	– 31/12/2005	Aanderaa RCM 9	-7.0m TAW					
Hoboken	01/07/2005 – 31/12/2005	Aanderaa RCM 9	-5.0m TAW					
Oosterweel (right bank)	01/07/2005	Aanderaa RCM 9	-7.0m TAW					
	– 31/12/2005	Aanderaa RCM 9	-9.0m TAW					
WLH – locations								
Location	Period	Instrument	Velocity	Direction	Temperature	Pressure	Conductivity	Turbidity
Oosterweel (left bank)	01/07/2005	Aanderaa RCM 9	-5.8m TAW					
	– 31/12/2005	Aanderaa RCM 9	-2.3m TAW					

### **3.1.2. Vertical tide**

Tidal data was delivered for the period from 01/07/2005 till 31/12/2005 by Waterbouwkundig Laboratorium en Hydrologisch Onderzoek – Cel Hydrometrie Schelde. It is reported together with the processed data of the long term measurements of the HCBS measurement campaign and those of the OWV measurement campaign in APPENDIX B respectively APPENDIX C.

### **3.1.3. Salinity downstream**

Salinity data of Baalhoek and Hoofdplaat was collected from the Hydro Meteo Centrum Zeeland (HMCZ, 2005) and processed by IMDC. Outliers were screened and removed. Monthly results (minimum, maximum and average values for salinity) are reported in APPENDIX D.

## **3.2. Fresh water inflow from the tributaries**

The fresh water discharge of the Kleine Nete (Grobendonk), the Grote Nete (Itegem), the Dijle (Haacht), the Dender (Dendermonde), the Zenne (Epegem) and the Bovenschelde (Melle) are provided by the Hydrologische Informatie Centrum of the Ministerie van de Vlaamse Gemeenschap – Departement Leefmilieu en Infrastructuur Afdeling Waterbouwkundig Laboratorium en Hydrologisch Onderzoek. The gauging stations are not influenced by the tide. The calculated discharges at the gauging stations are converted to discharges at the mouth of the tributaries and then to a total fresh water discharge at Schelle. This procedure is described in AZ (1974) and is based on the use of correction coefficients that take in account the surface of the hydrological basins.

In APPENDIX E a graph of the evolution of the fresh water discharge is given just as a table with the decade averages of the fresh water discharge. Notice that the values given for the 1<sup>st</sup> semester are slightly different than those given in the previous report (IMDC 2005). This is due to the fact that the discharge for the Scheldt in this report is calculated based on different gauging stations. The maximum difference is reached in the third decade of February, where it comes to 16 m<sup>3</sup>/s or 9% of the total discharge.

## **3.3. Meteorological data**

The meteorological conditions for the measurement station Deurne for the period of 1 July 2005 till 31 December 2005 are reported in APPENDIX F. This data was obtained from KMI (Koninklijk Meteorologisch Instituut = Royal Meteorological Institute of Belgium (KMI, 2005a; KMI, 2005b; KMI, 2005c; KMI, 2005d; KMI, 2005e; KMI, 2005f). Deurne is the closest weather station of the KMI.

## **3.4. Human Activities**

### **3.4.1. Dredging activities**

Afdeling Maritieme Toegang provided information about the dates, times, volumes and locations of dredging activities. In APPENDIX G an overview is given of all the dredging activities of the second semester of 2005. Weekly volumes are given per location. Notice that week 27 starts the 4<sup>th</sup> of July.

Concerning dredging activities for the opening of Deurganckdok during the second semester of 2005, the reader is referred to the report of the first semester (IMDC 2005).

### 3.4.2. Navigation

Weekly data of navigation was delivered by Afdeling Scheepvaartbegeleiding – Schelde Radar Keten for the period of 04/07/2005 till 02/01/2006. To order the data a splitting up of the Beneden Zeeschelde was done in 4 areas. The first area is from de Belgian border up to locks of Zandvliet – Berendrecht (sluizencomplex Zandvliet – Berendrecht), the second goes from this point forward up to Deurganckdok. The third area is from Deurganckdok up to the lock of Kallo (Kallosluis) and finally the fourth goes up to the lock of Royers (Royerssluis). A more detailed description of the areas can be found in APPENDIX H. Also a distinction is made between the draughts. In APPENDIX H a total number is given which refers to the total of passing ships registered by Afdeling Scheepvaartbegeleiding - Schelde Radar Keten. In addition a difference was made between inland navigation and seagoing ships, just as between arrival and departure. Notice that for a certain area and certain draught, the total may deviate from the sum of inland navigation and seagoing. This can be explained by the presence of ships like dredgers, which were only counted in the column 'total'. Also a difference may occur between the total number and the sum of the arrival and departure number. This is due to vessels that have the same entry and exit point.

Finally it should be mentioned that not all inland shipping is observed by the system, which means that the actual number of inland shipping will be higher.

## 4. REFERENCES

AZ (1974). Debieten van het Scheldebekken periode 1959 – 1972. *Ministerie van Openbare werken, Antwerpse Zeehavendienst.*

HMCZ (2005). Hydro Meteo Centrum Zeeland. Tijdsreeksen uit de WTZ – database. Consulted on 3 May 2006, at <http://www.hmcz.nl/cgi-bin/uncgi/ok.cgi?Akkoord=Ja&%2Fcgi-bin%2Ffuncgi%2Fok.cgi=Verstuur>

IMDC (2002). Studie Densiteitsstroming in het kader van LTV Schelde, Stroom- en saliniteitsmeting t.h.v. Deurganckdok uitgevoerd op 12/06/2002, I/RA/11216/02.042/CMA, in opdracht van AWZ.

IMDC (2005). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 5.1: Omgevingscondities januari – juni 2005, I/RA/11265/05.016/MSA, in opdracht van AWZ.

KMI (2005a). Maandbericht Klimatologische waarnemingen juli 2005 Deel I & II. Koninklijk Meteorologisch Instituut van België, Brussel.

KMI (2005b). Maandbericht Klimatologische waarnemingen augustus 2005 Deel I & II. Koninklijk Meteorologisch Instituut van België, Brussel.

KMI (2005c). Maandbericht Klimatologische waarnemingen september 2005 Deel I & II. Koninklijk Meteorologisch Instituut van België, Brussel.

KMI (2005d). Maandbericht Klimatologische waarnemingen oktober 2005 Deel I & II. Koninklijk Meteorologisch Instituut van België, Brussel.

KMI (2005e). Maandbericht Klimatologische waarnemingen november 2005 Deel I & II. Koninklijk Meteorologisch Instituut van België, Brussel.

KMI (2005f). Maandbericht Klimatologische waarnemingen december 2005 Deel I & II. Koninklijk Meteorologisch Instituut van België, Brussel.

TV SAM (2005). Langdurige stationaire metingen te Hoboken, Oosterweel, Oosterweel dukdalf, Boerenschans 07/2005 – 09/2005. 42SR S025SRI 2A

Unesco (1983). Algorithms for computation of fundamental properties of seawater, UNESCO Technical Papers in Marine Science, 44. UNESCO, France.



## **APPENDIX A.**

### **TECHNICAL DETAILS AANDERAA RCM-9**



## The RCM 9

*A unique  
Recording Current Meter  
for use in the sea  
and in freshwater  
featuring the Mark II  
DOPPLER CURRENT  
SENSOR DCS 3920*

**Measuring:**

- Current Speed
- Current Direction
- Temperature
- Conductivity (optional)
- Instrument Depth (optional)
- Turbidity (optional)
- Oxygen (optional)
- Signal Strength (optional)
- Instrument Tilt (optional)

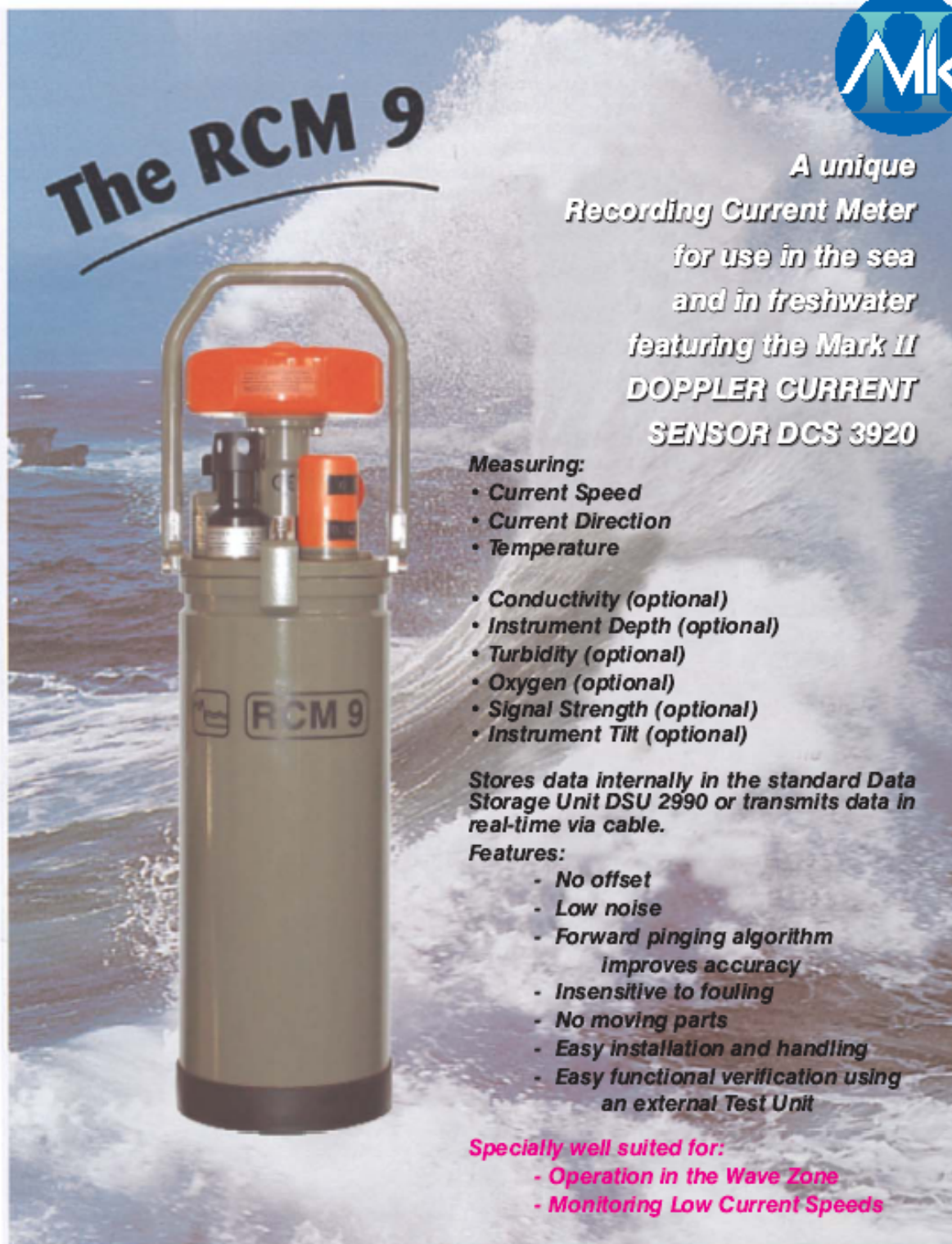
**Stores data internally in the standard Data Storage Unit DSU 2990 or transmits data in real-time via cable.**

**Features:**


- No offset
- Low noise
- Forward pinging algorithm  
improves accuracy
- Insensitive to fouling
- No moving parts
- Easy installation and handling
- Easy functional verification using  
an external Test Unit

**Specially well suited for:**

- Operation in the Wave Zone
- Monitoring Low Current Speeds





## SPECIFICATIONS FOR RCM9, MK II

Measuring system: A self balancing bridge with sequential measurement of 10 channels and solid state memory. 10-bit binary word for each channel. The channels are: (  signifies Mk II changes)

**Ch.1 Reference** is a fixed reading to check the RCM's performance and to identify individual instruments

### Ch.2 and Ch.3, Current Speed and Direction:

Speed Sensor Type: Doppler Current Sensor 3920  
Range: 0 to 300cm/s   
Resolution: 0.3cm/s  
\*Accuracy:   
Absolute:  $\pm 0.15$  cm/s  
Relative:  $\pm 1\%$  of reading  
Statistic precision: 0.5 cm/s (standard deviation)  
Direction Sensor: Magnetic compass, Hall effect type  
Resolution:  $0.35^\circ$   
Accuracy:  $\pm 5^\circ$  for  $0-15^\circ$  tilt and  
 $\pm 7.5^\circ$  for  $15-35^\circ$  tilt  
Acoustic Frequency: 2 MHz  
Power: 25 Watt in 1 ms pulses  
Beam Angle:  $\pm 1^\circ$  (Main Lobe)  
Installation distance: Minimum 0.5m from the bottom  
(to the DCS head) Minimum 0.75m from the surface

### Ch.4 Temperature: Temperature Sensor 3621

Sensor type: Thermistor (Fenwall GB32JM19)  
Resolution: 0.1% of selected range  
Accuracy:  $\pm 0.05^\circ\text{C}$   
Response time: 12 seconds (63%)  
Selectable Ranges:  
Wide range:  $-0.64$  to  $32.87^\circ\text{C}$   
Low range:  $-2.70$  to  $21.77^\circ\text{C}$   
High range:  $+9.81$  to  $36.66^\circ\text{C}$   
Arctic range:  $-3.01$  to  $5.92^\circ\text{C}$

### Ch.5 Conductivity (Optional): Conductivity Sensor 3619

Sensor Type: Inductive Cell  
Selectable ranges: 0 – 74 mS/cm  
24 – 38 mS/cm  
Accuracy:  $\pm 0.2\%$  of range  
0 – 2 mS/cm (Cond. Sensor 3619N)  
Accuracy:  $\pm 0.8\%$  of range  
Resolution: 0.1% of range

### Ch.6 Pressure (Optional): Pressure Sensor 3815

Sensor Type: Silicon piezoresistive bridge  
Available ranges: 0-700kPa, 0-3500kPa  
0-7000kPa, 0-20MPa  
Resolution: 0.1% of range  
Accuracy:  $\pm 0.25\%$  of range

### Ch.7 Turbidity (Optional): Turbidity Sensor 3612

Sensor type: Optical Back-scatter Sensor  
Available ranges: 0-20, 0-100, 0-500 NTU  
Resolution: 0.1 % of full scale  
Accuracy: 2% of full scale



### Ch.8: Oxygen (Optional): Oxygen Optode 3830

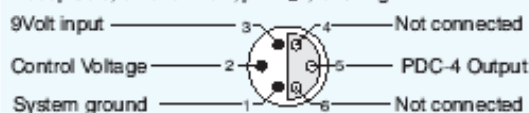
Sensor Type: Oxygen Optode  
Range: 0 - 500 $\mu\text{M}$   
Resolution:  $< 1\mu\text{M}$   
Accuracy:  $< 8\mu\text{M}$  or 5% whichever is greater  
Response time: Setting (63%):  $< 25$  seconds  
Depth capacity: 6000 meters

## AANDERAA INSTRUMENTS

### Watertight Receptacle:

#### PIN CONFIGURATION

Receptacle, exterior view; pin =  ; bushing = 



**Number of Channels:** Selectable from 2 to 10 channels


**External Triggering:** A positive 5volt pulse to the electrical terminal, output pin, will trigger one measurement cycle

**Recording Intervals:** 1,2,5,10,20,30,60 and 120minutes  
Continuous (4s x no. of ch. + 2s) and Remote Start only

**Recording System:** Data Storage Unit 2990 or 2990E  
Data storage in EEPROM

**Storage Capacity:** DSU 2990: 9000 records (7 ch.)  
(2 months at 10 minute interval)  
DSU 2990E: 36100 records (7 ch.)  
(8 months at 10 minute interval)

**Battery:** Alkaline Battery 3614, 9V, 15Ah  
(nominal 12.5Ah 220W down to 6V at  $4^\circ\text{C}$ ) or Lithium Battery 3677, 7.2V  
30Ah for 1year, respectively 2 years and 4 months operation at one hour interval, or 92, respectively 220 days at 10 minute interval

**Average Current Consumption (mA):**   
 $0.50 + (50 \text{ divided by the recording interval in minutes})$

**Depth Capability:** 1000 meters

**Dimensions:** 513mm High  
128mm OD

**Weight (kg):** in air in water

Net (with frame): 22.5 14.5

Gross (with frame): 32.5

**Packing:** Plywood case: 190 x 250 x 650mm

**External Materials:** Stainless acid proof steel, Titanium, OSNISIL, Durotong DT 322 polyurethane

**Accessories:**  
(Included) Mooring Frame 3624 with Sensor  
Protecting Ring 966278  
(Optional) Base Brackets 3627(2) for Frame  
Additional Protecting Rods 3768  
Vane Plate 3681  
DCS Test Unit 3731

**Spares:** A set of recommended spares is delivered free of charge with each instrument (o-rings, sealing plugs, tools, cotter pins etc)

**Warranty:** Two years against faulty materials and workmanship. For subsurface cables contact factory

\* Assumes speed of sound is 1500m/s. Actual speed of sound can be corrected for using the 5059 program.

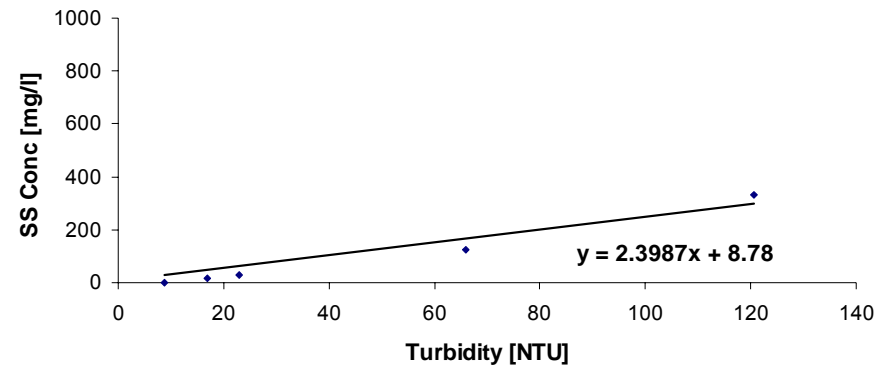
# **APPENDIX B.**

## **LONG TERM MEASUREMENTS**

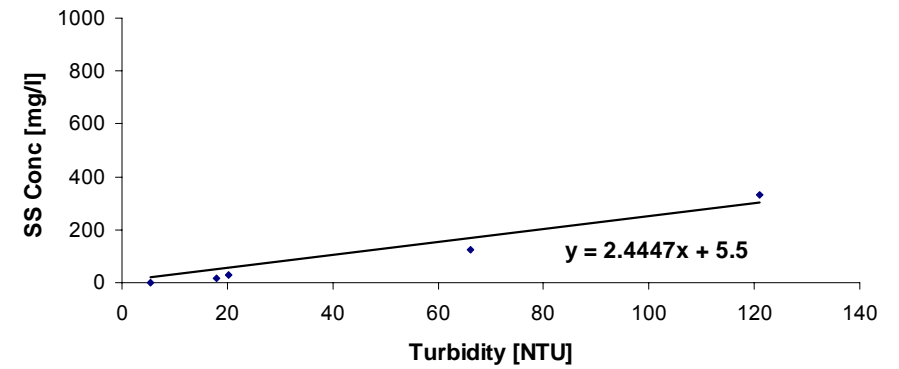
### **HCBS MEASUREMENT CAMPAIGN**

## **B.1 Calibration curves Turbidity vs. Suspended Sediment Concentration**

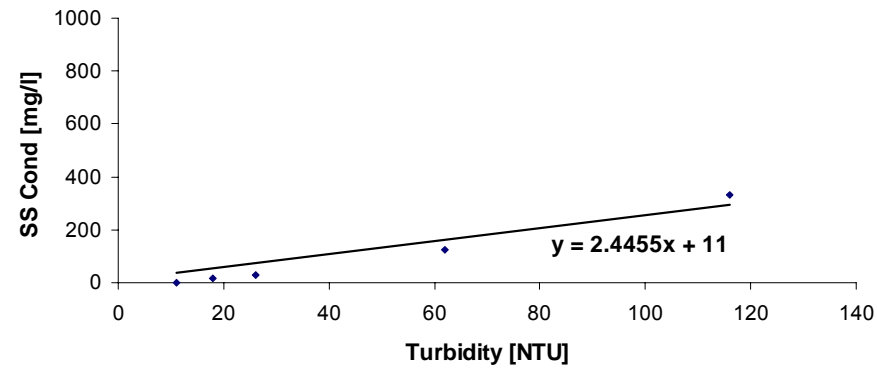
**Aanderaa 1220**



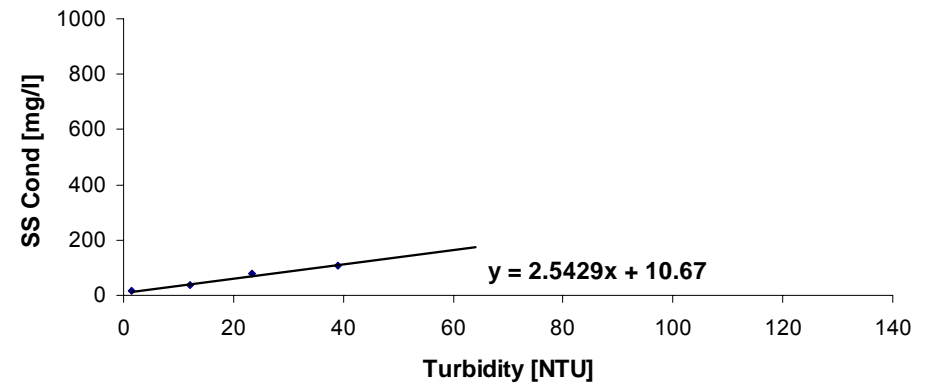
**Aanderaa 1225**



**Aanderaa 1229**



**Aanderaa 1164**



<b>SENSOR</b>	<b>LOCATION AND HEIGHT ABOVE BOTTOM</b>	<b>PERIOD</b>
Aanderaa 1225	Buoy 84 – 0.4 m	21/09/2005 – 13/10/2005
Aanderaa 1225	Buoy 84 – 3.3 m	13/10/2005 – 14/11/2005
Aanderaa 1225	Buoy 84 – 0.7 m	14/11/2005 – 31/12/2005
Aanderaa 1229	Buoy 84 – 1.0 m	21/09/2005 – 13/10/2005
Aanderaa 1229	Buoy 84 – 0.8 m	13/10/2005 – 14/11/2005
Aanderaa 1229	Buoy 84 – 1.3 m	14/11/2005 – 31/12/2005
Aanderaa 1164	Buoy 97 – 1.3 m	20/09/2005 – 13/10/2005
Aanderaa 1164	Buoy 97 – 3.3 m	13/10/2005 – 31/12/2005
Aanderaa 1220	Buoy 97 – 1.1 m	20/09/2005 – 13/10/2005
Aanderaa 1220	Buoy 97 – 0.8 m	13/10/2005 – 31/12/2005

## **B.2 Datasheets week series**

### **B.2.1. Frames placed upright**

**Buoy 84: 13/10/2005 – 14/11/2005**

**Buoy 97: 13/10/2005 – 31/12/200**

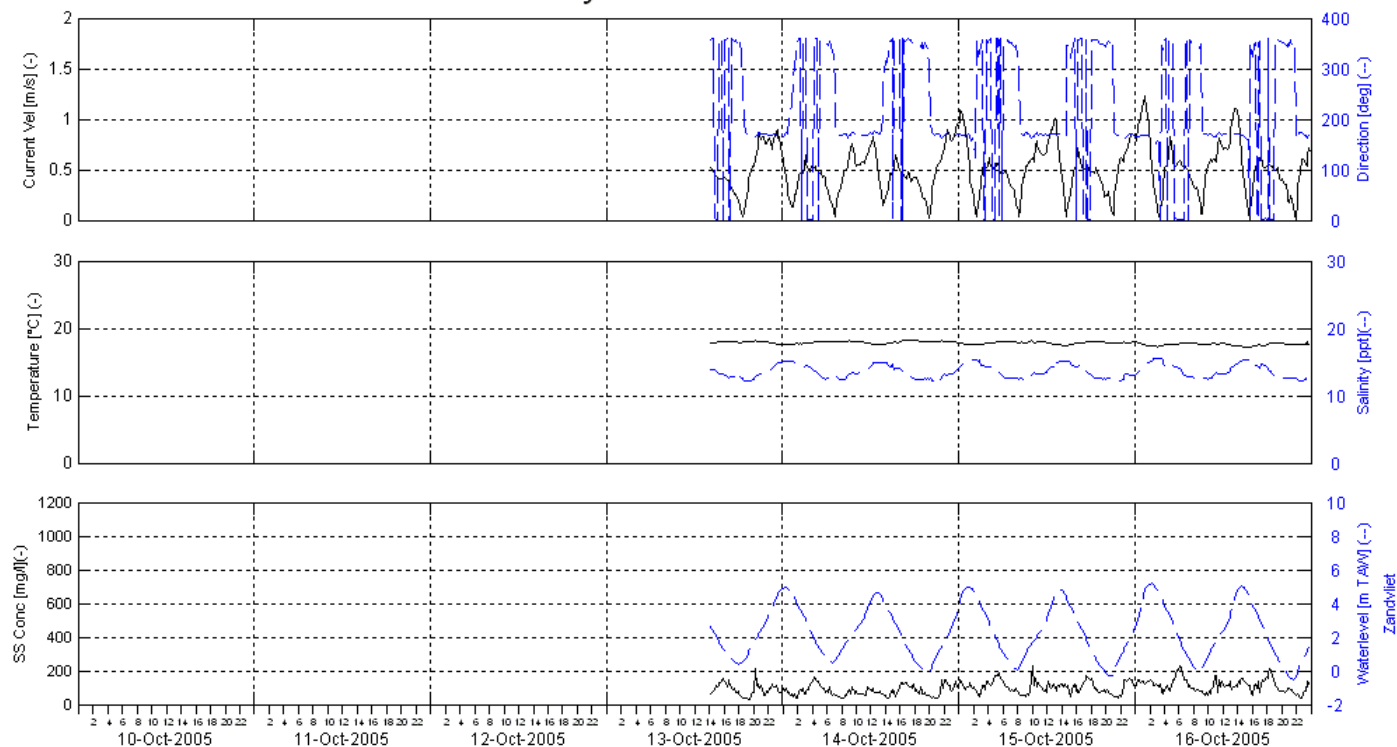


## Datasheet order

Nr	Location	Depth of Instrument	
		<i>[m] above bottom</i>	<i>[m TAW]</i>
1	Buoy 84	3.3	-5.6
2	Buoy 84	0.8	-8.1
3	Buoy 97	3.3	-5.3
4	Buoy 97	0.8	-7.8

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 42 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 3.3m above bottom (-5.6m TAW)

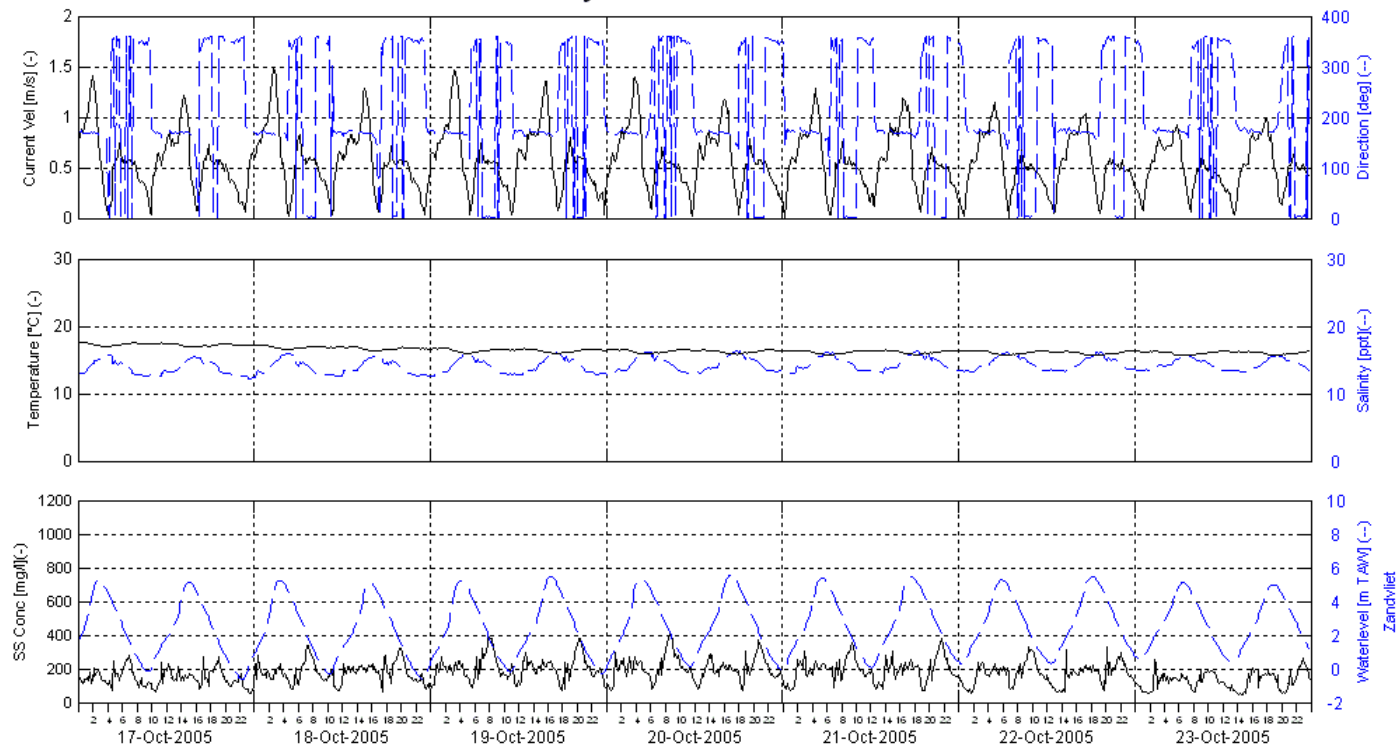
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 43 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 3.3m above bottom (-5.6m TAW)

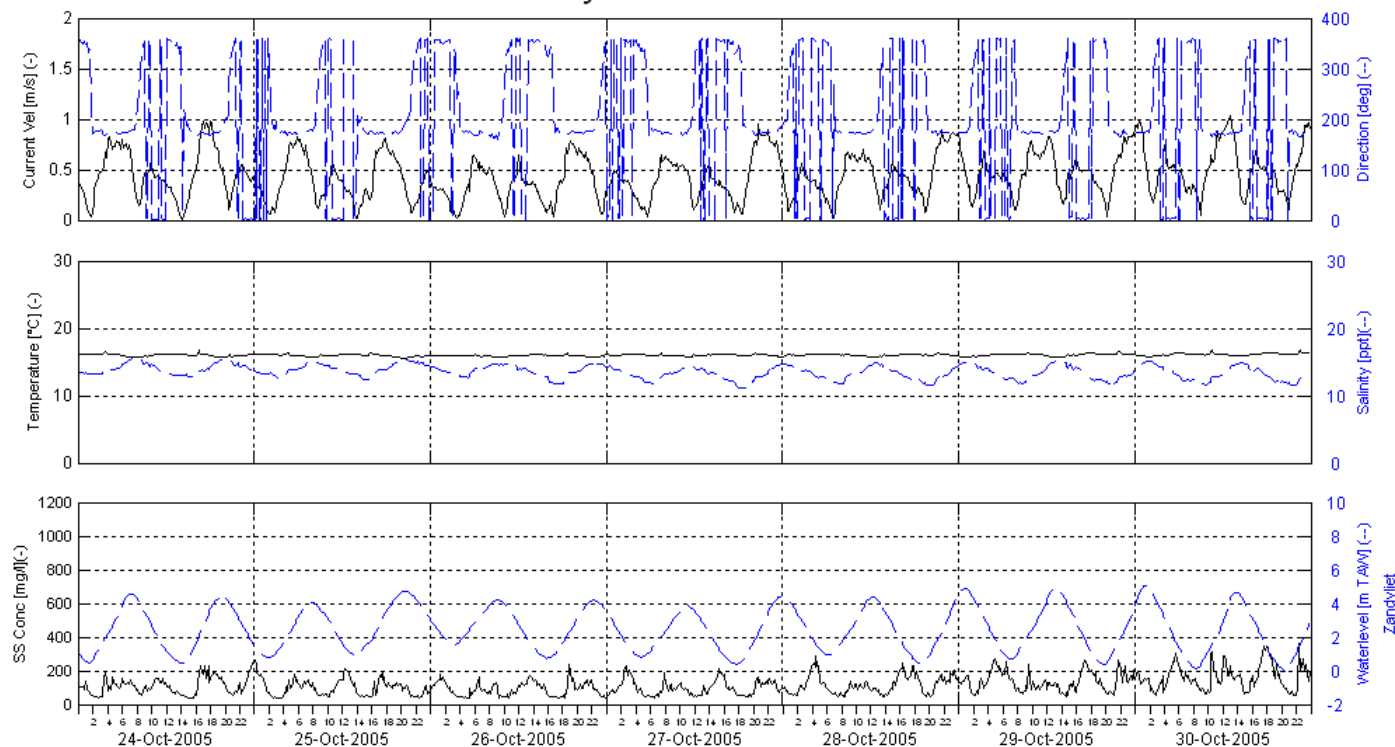
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 44 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 3.3m above bottom (-5.6m TAW)

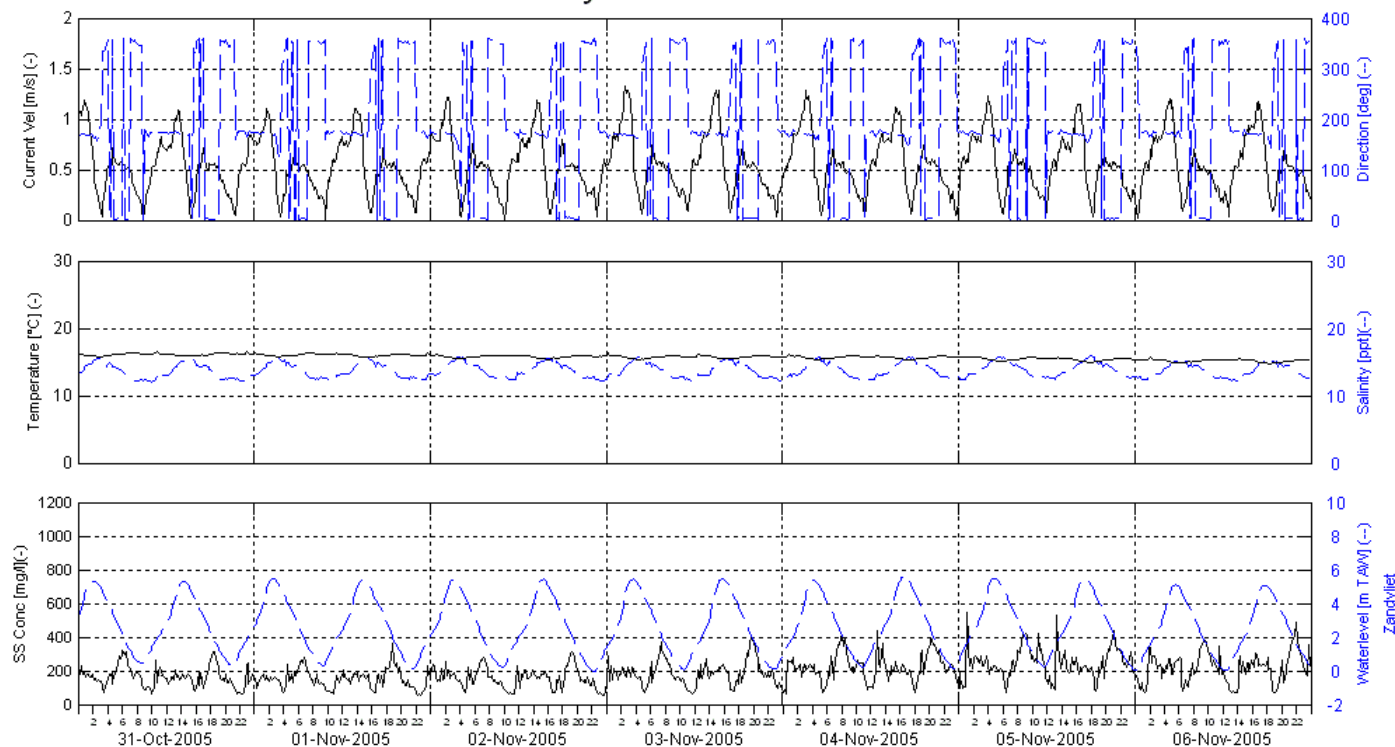
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 45 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 3.3m above bottom (-5.6m TAW)

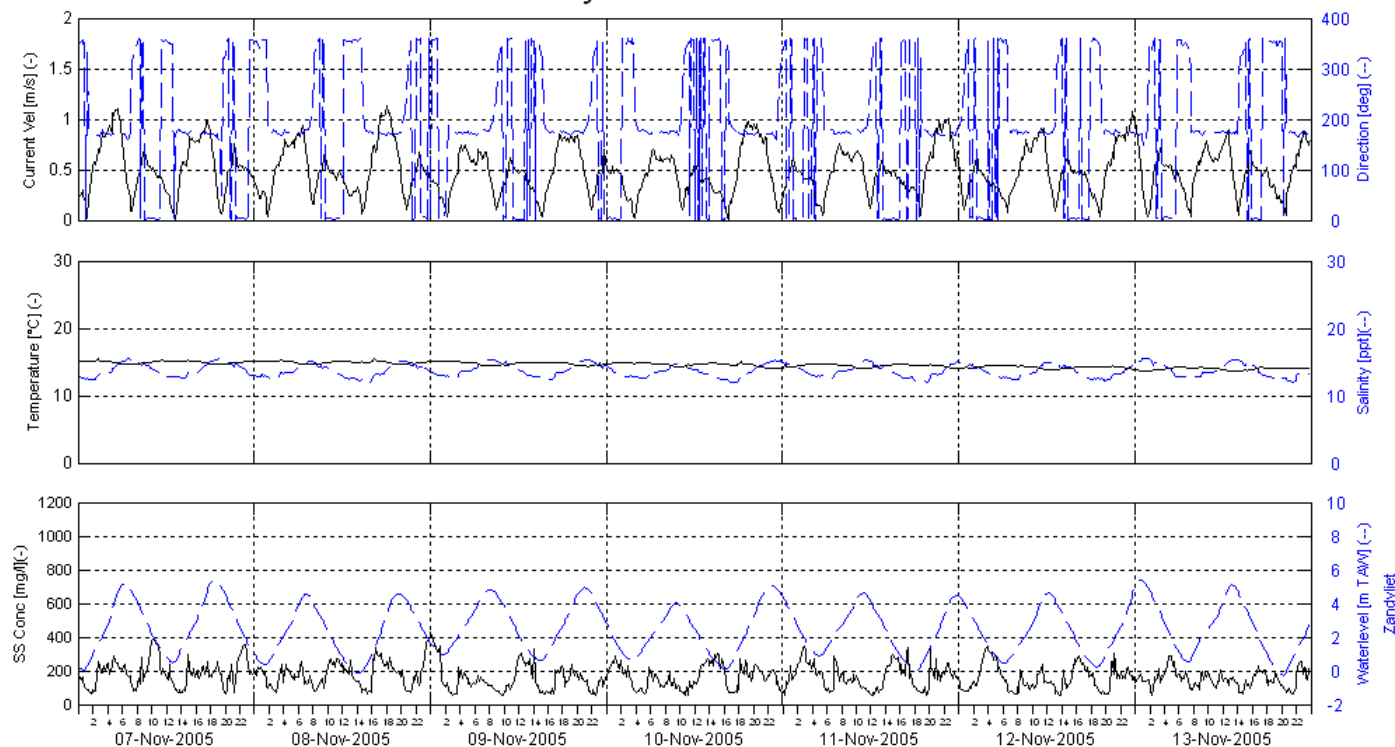
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 46 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 3.3m above bottom (-5.6m TAW)

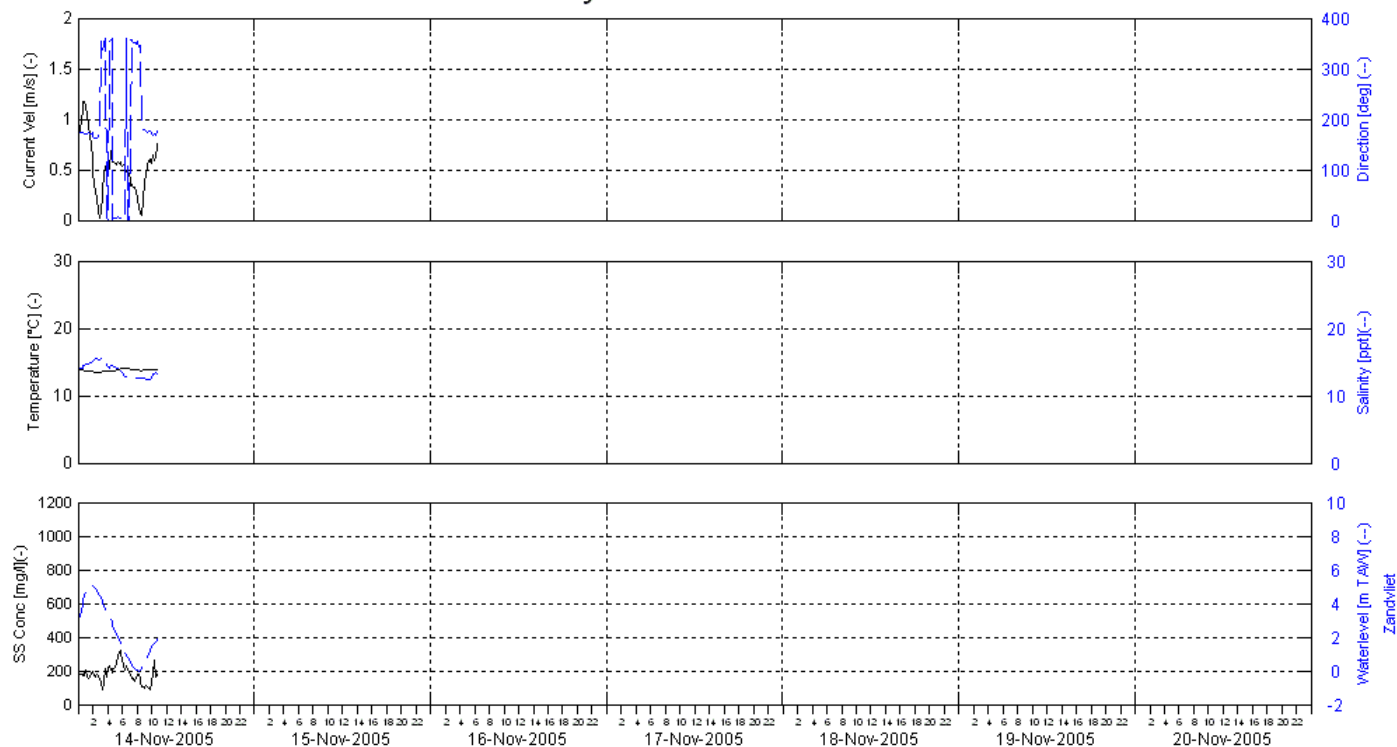
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 47 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 3.3m above bottom (-5.6m TAW)

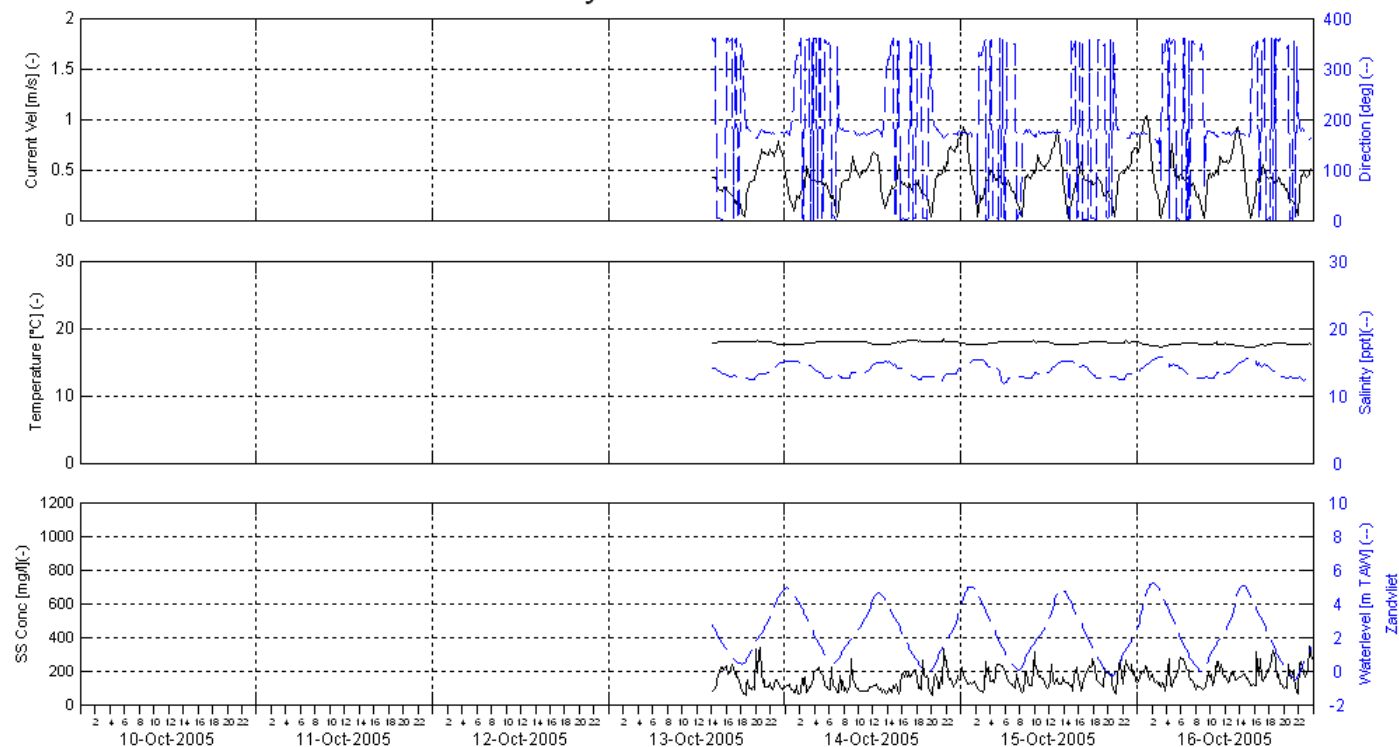
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 42 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.8m above bottom (-8.1m TAW)

In association with:

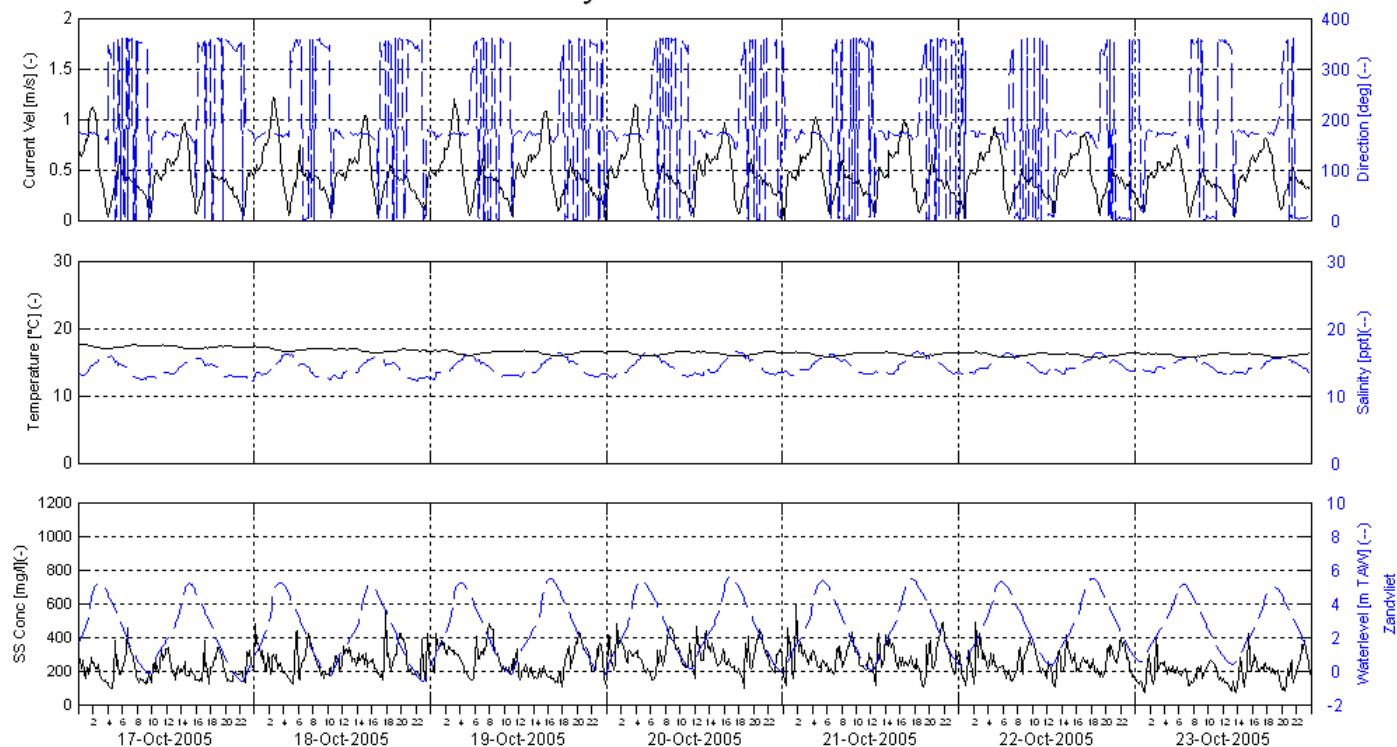


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 43 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.8m above bottom (-8.1m TAW)

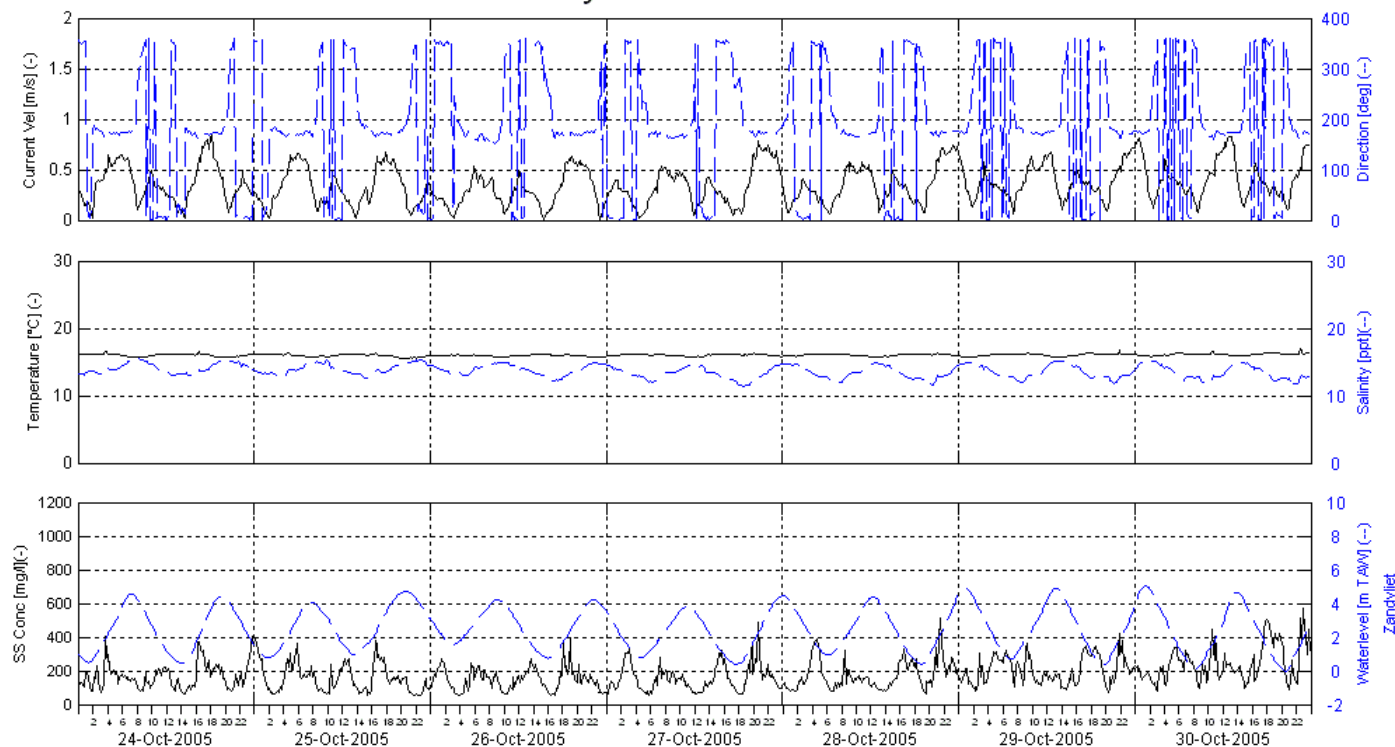
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 44 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.8m above bottom (-8.1m TAW)

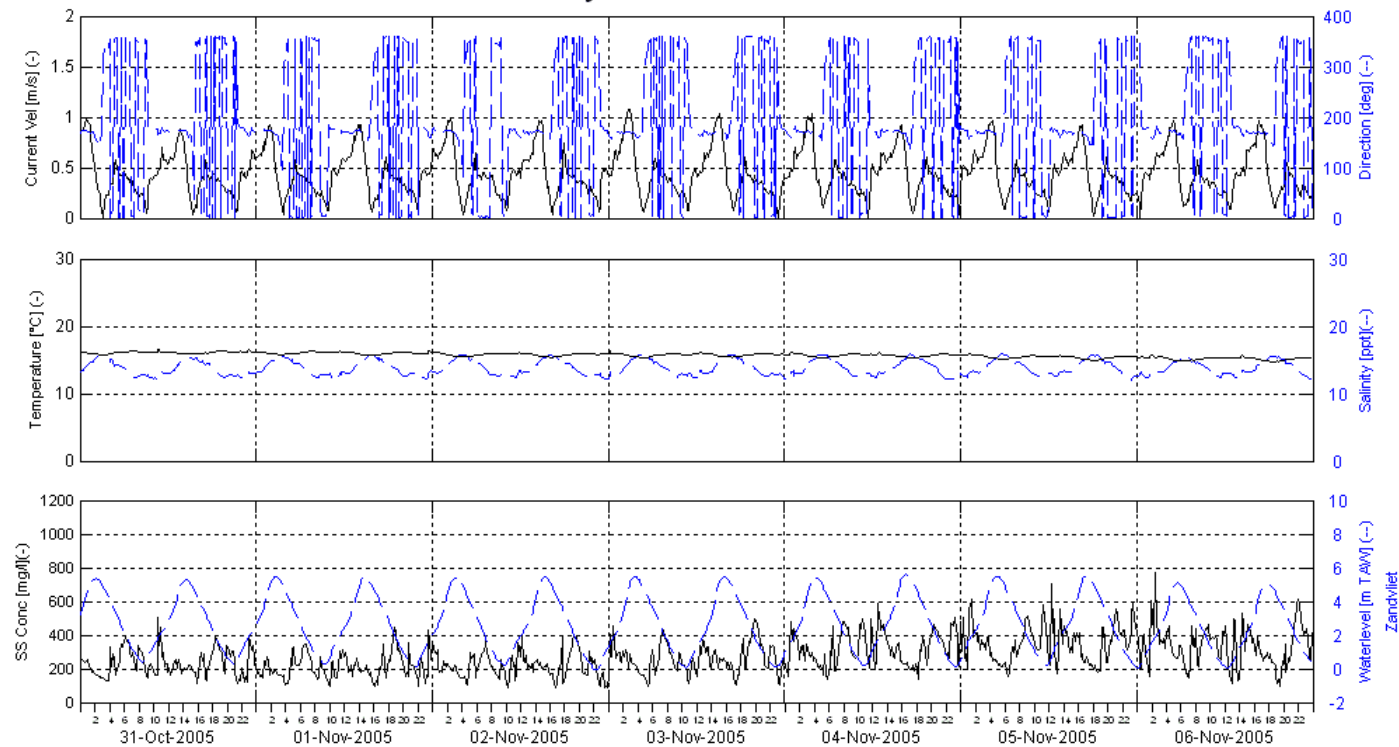
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 45 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.8m above bottom (-8.1m TAW)

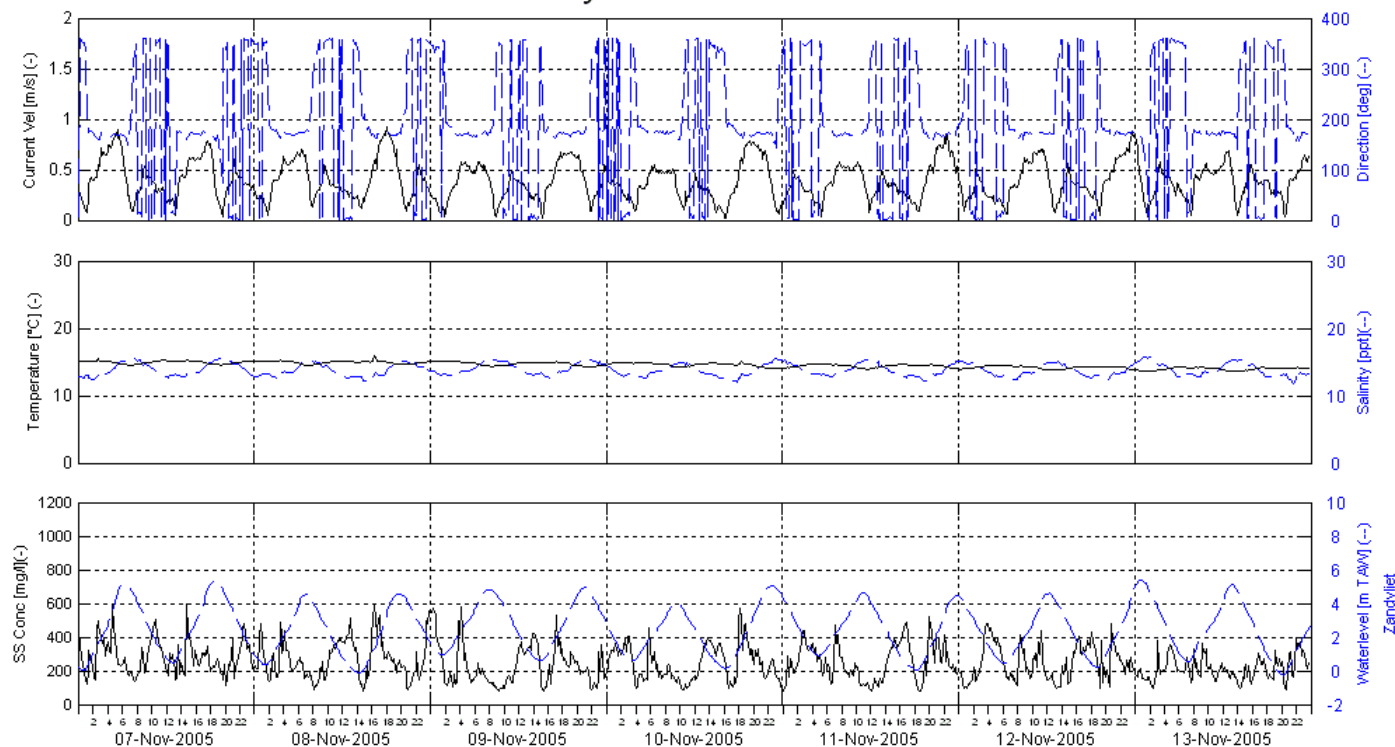
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 46 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.8m above bottom (-8.1m TAW)

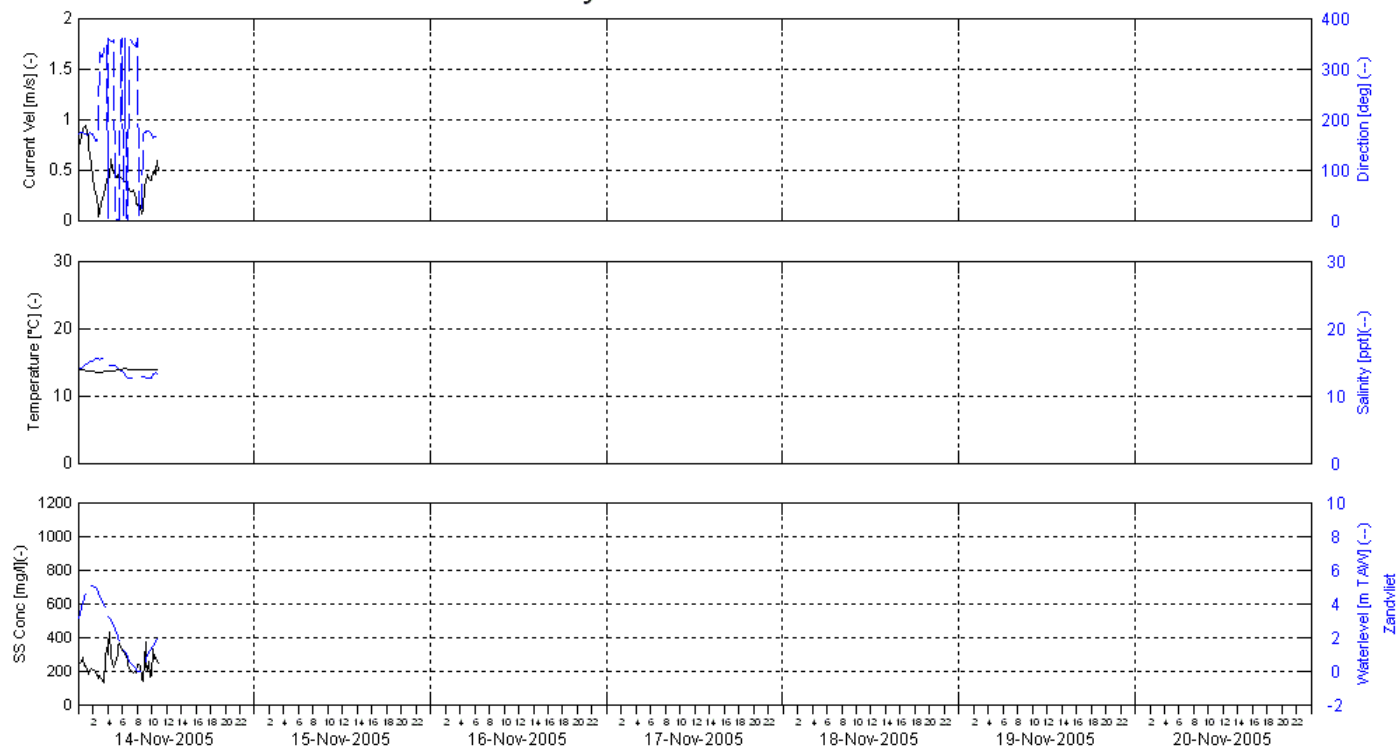
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 84 Week 47 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.8m above bottom (-8.1m TAW)

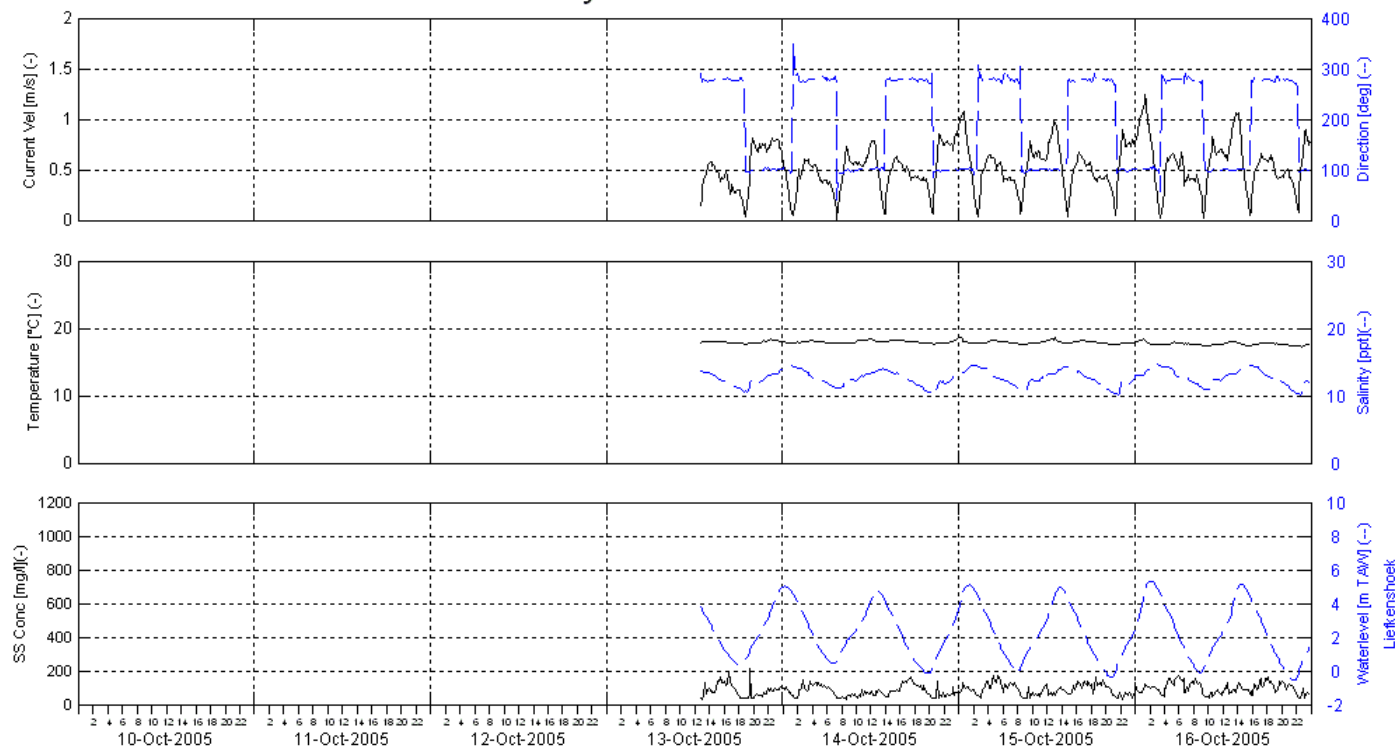
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 42 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

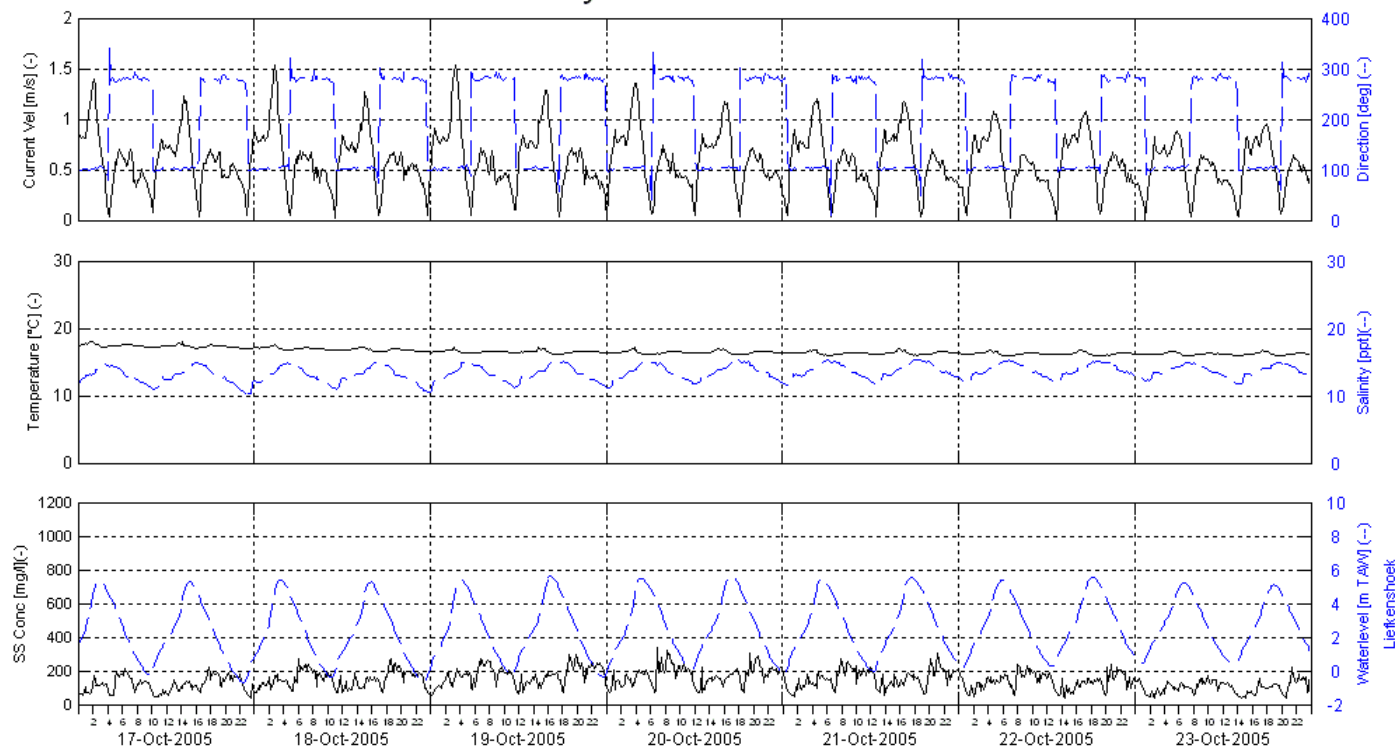
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 43 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

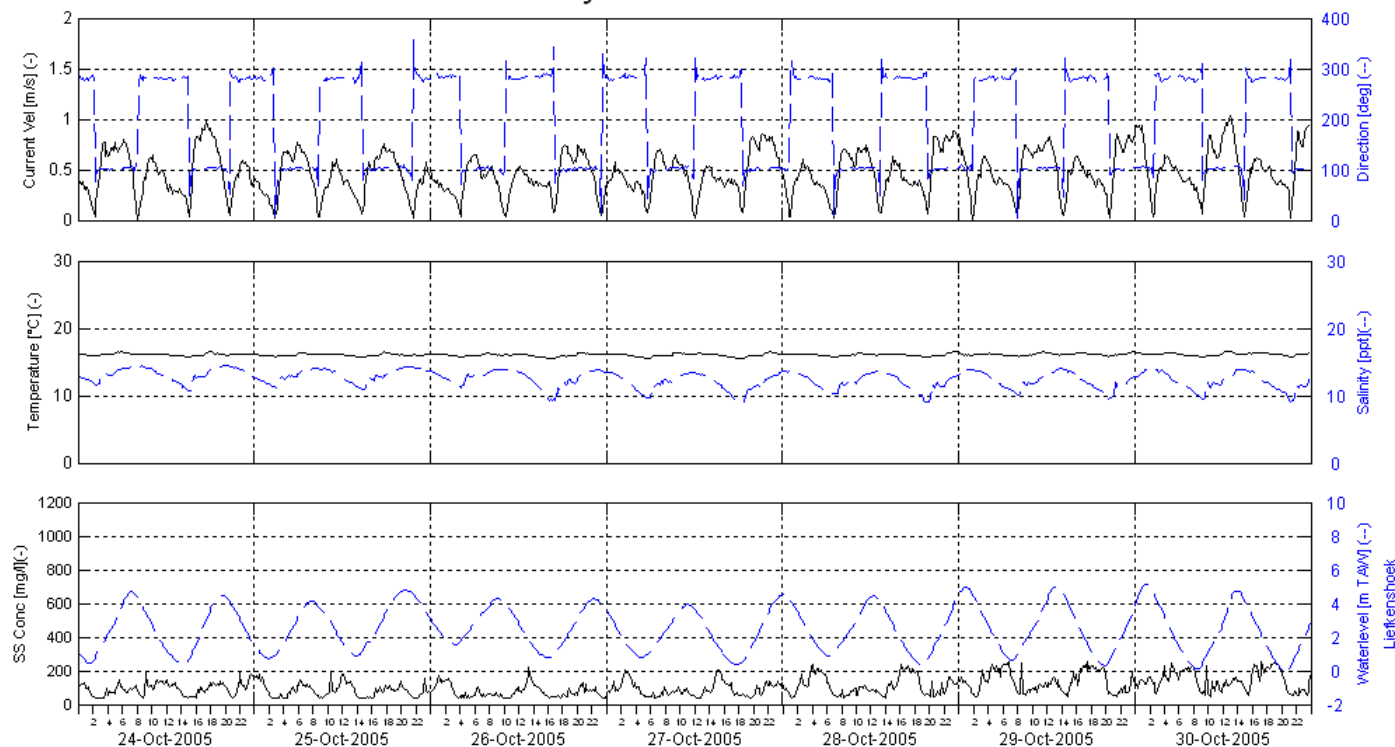
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 44 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

In association with:

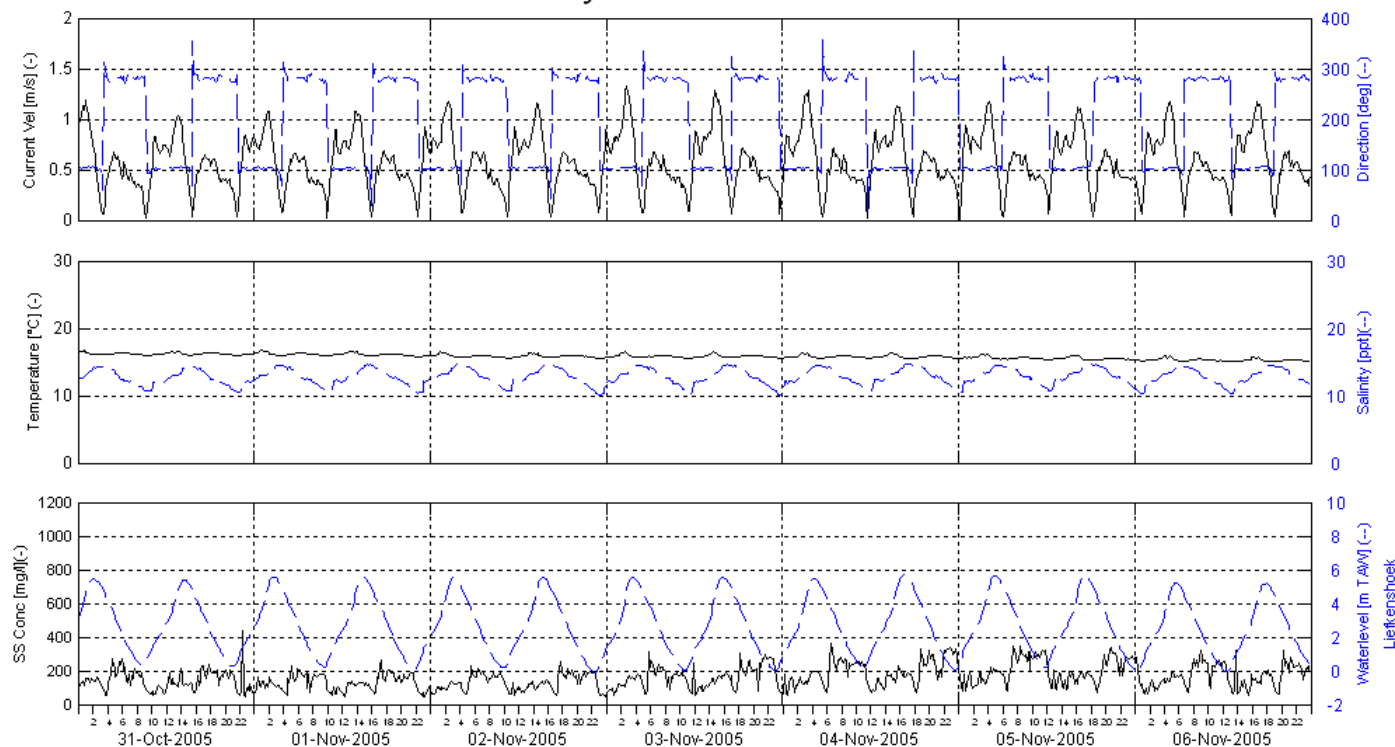


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 45 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

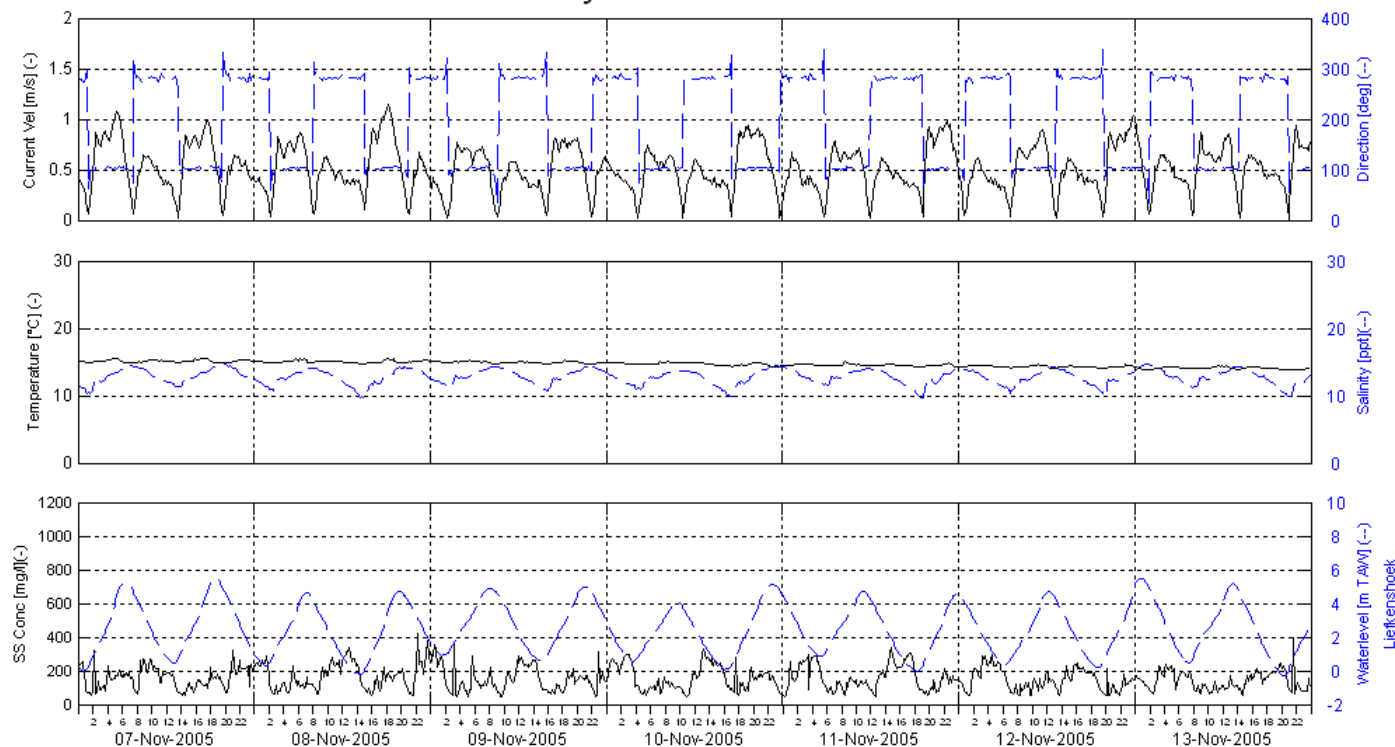
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 46 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

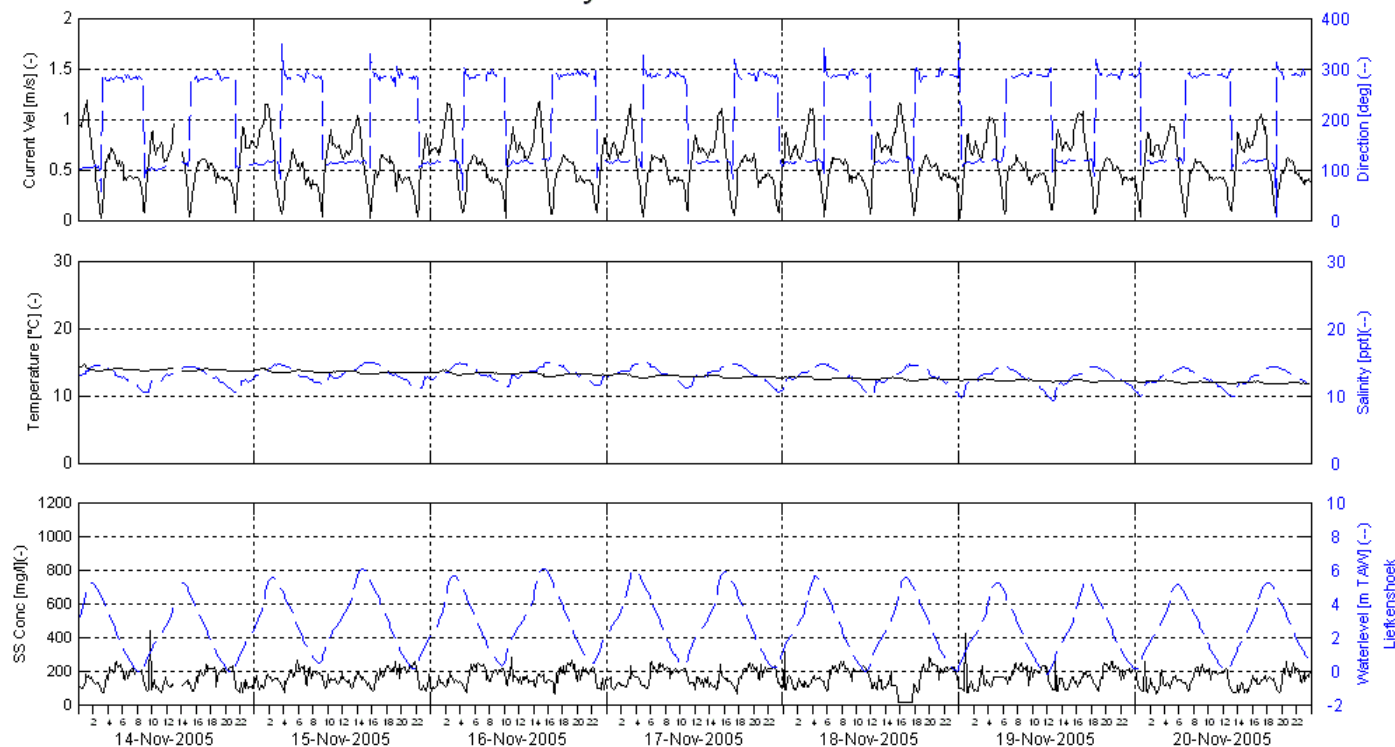
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 47 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

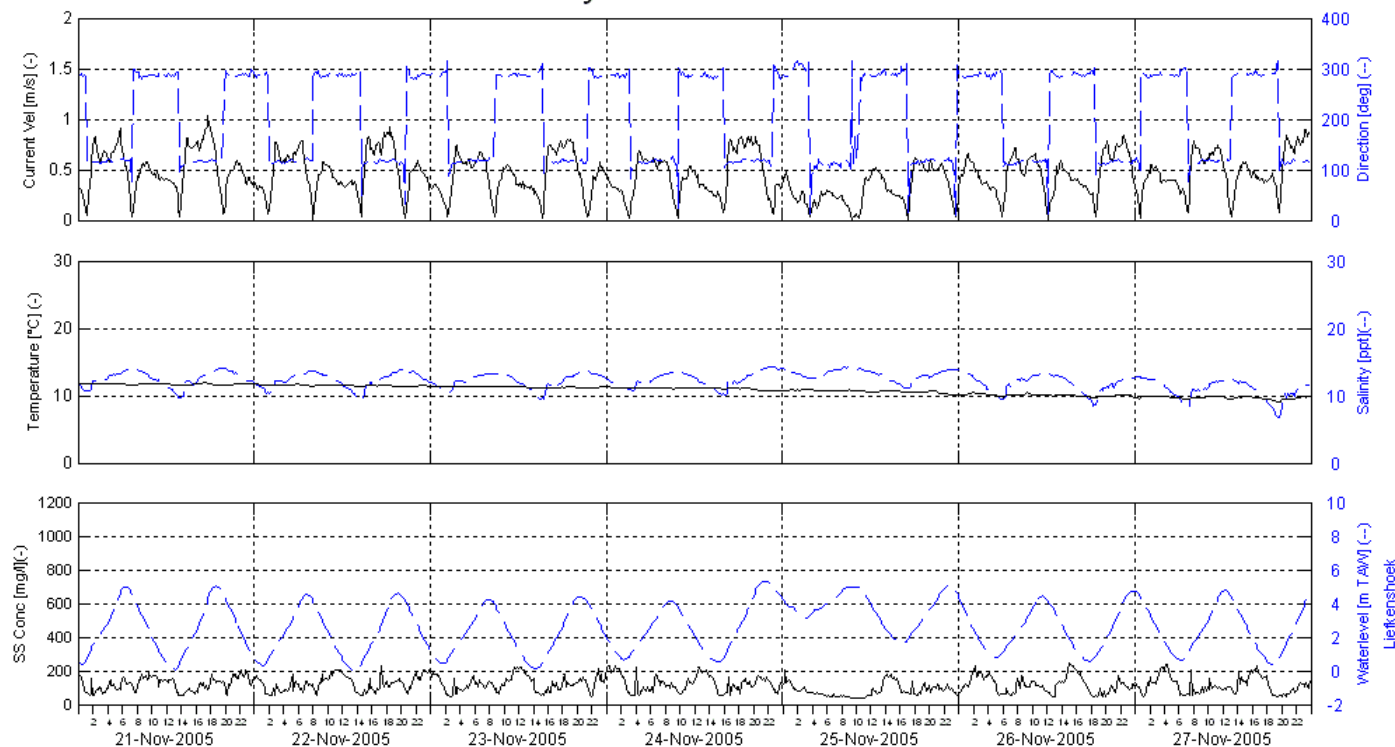
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 48 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

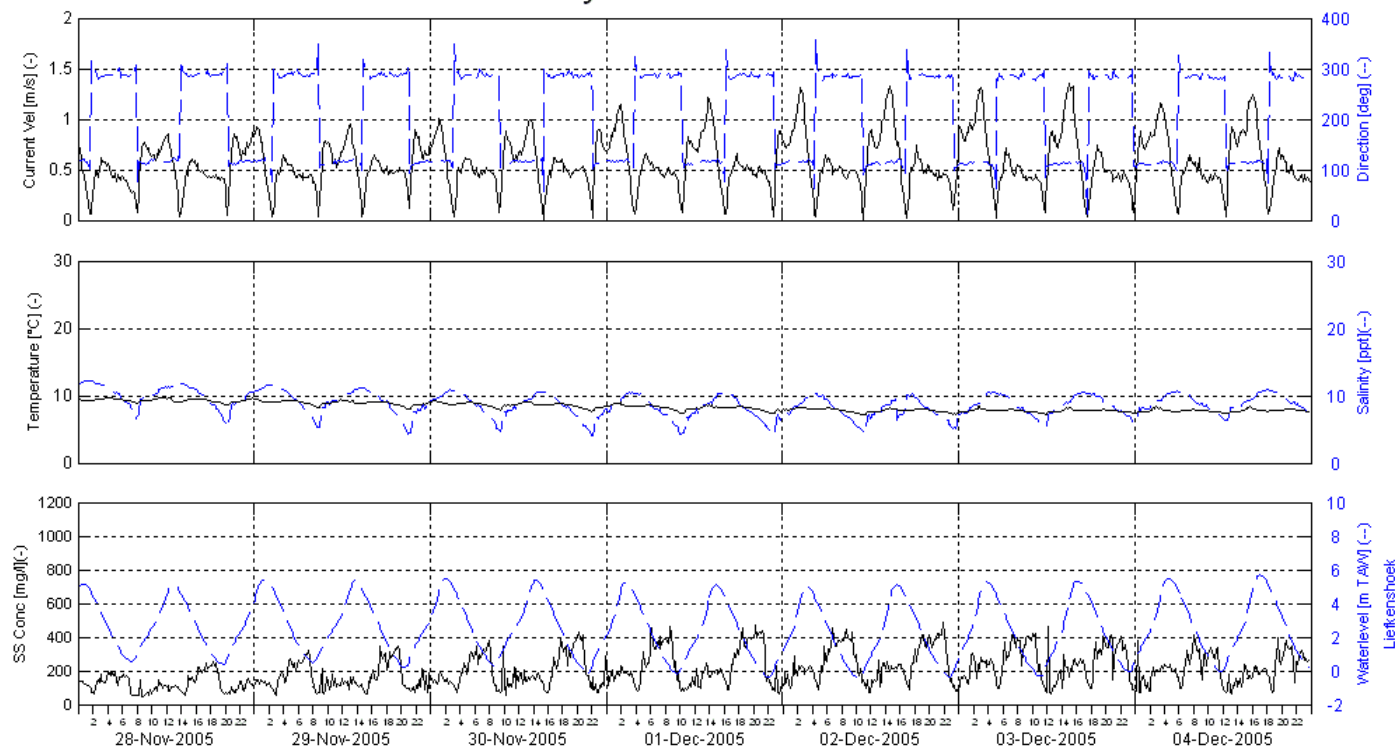
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 49 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

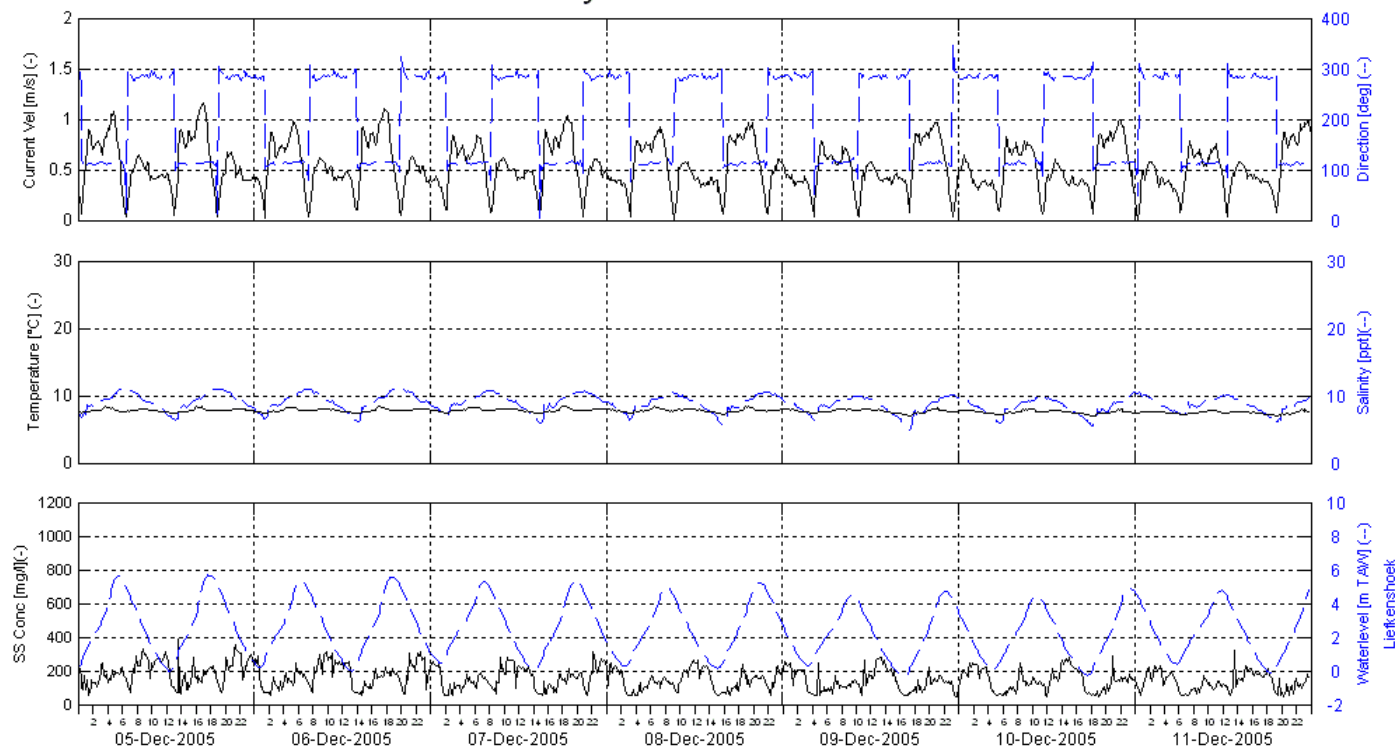
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 50 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

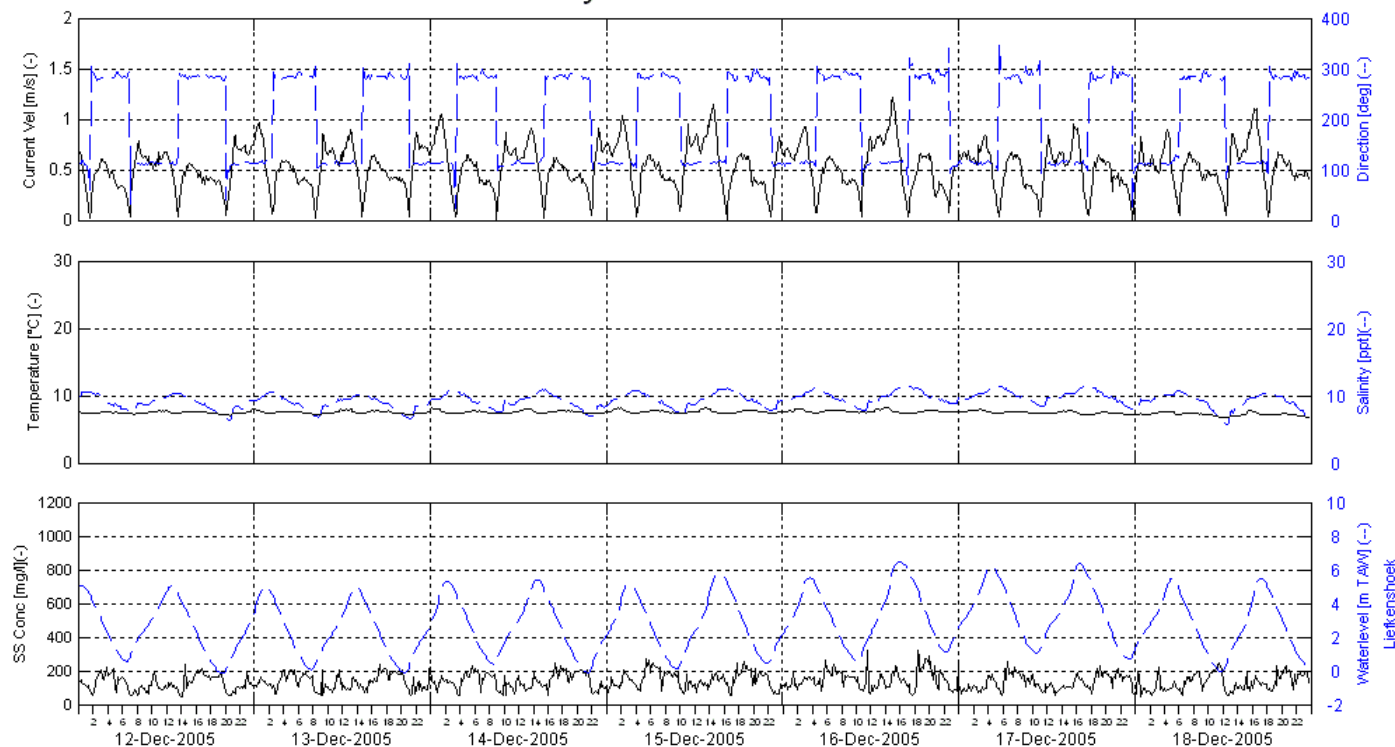
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 51 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

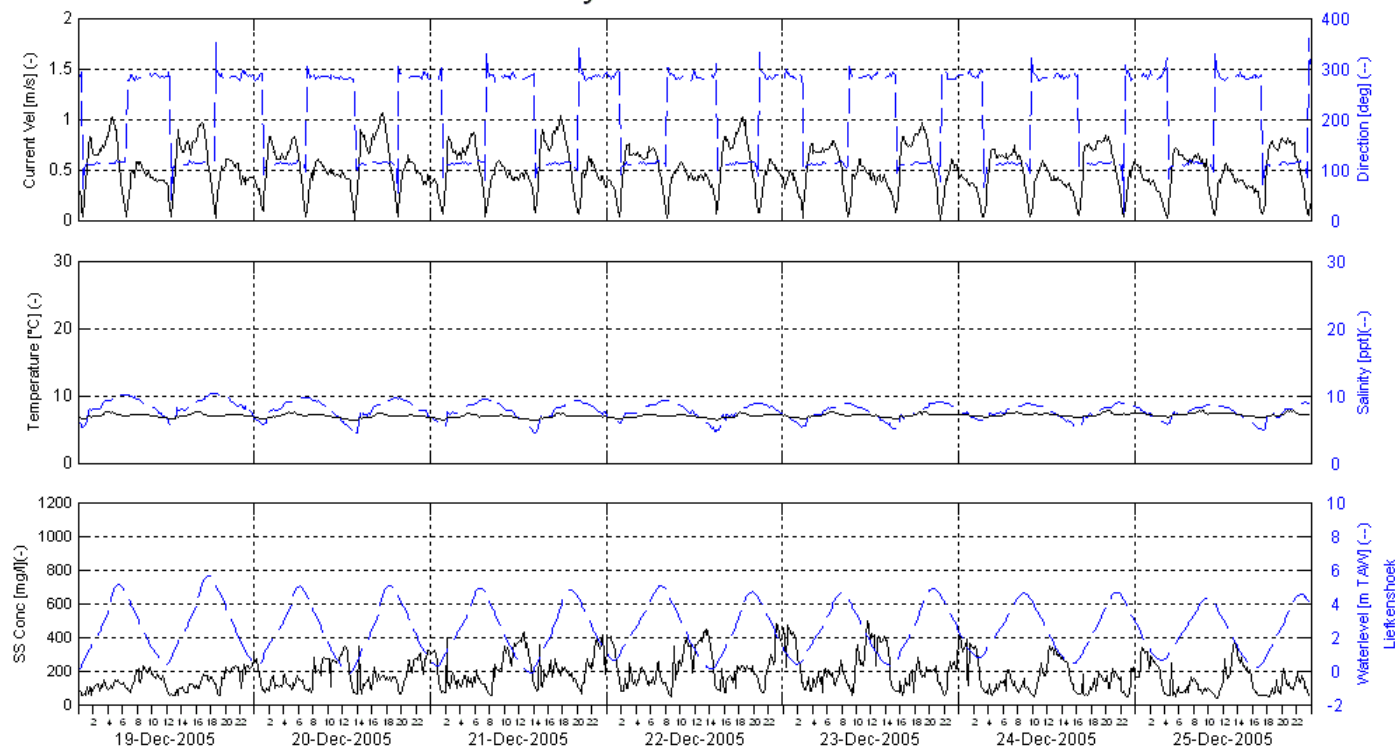
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 52 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

In association with:

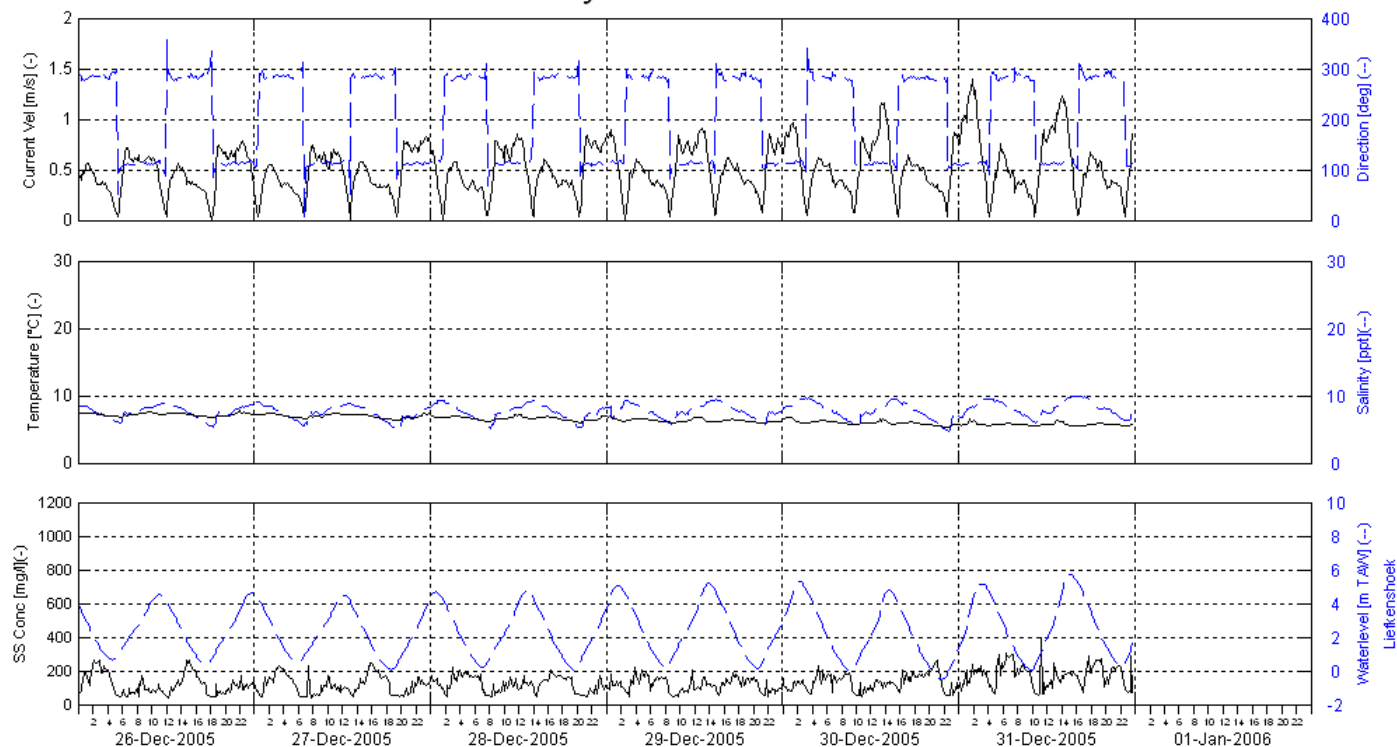


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 53 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 3.3m above bottom (-5.3m TAW)

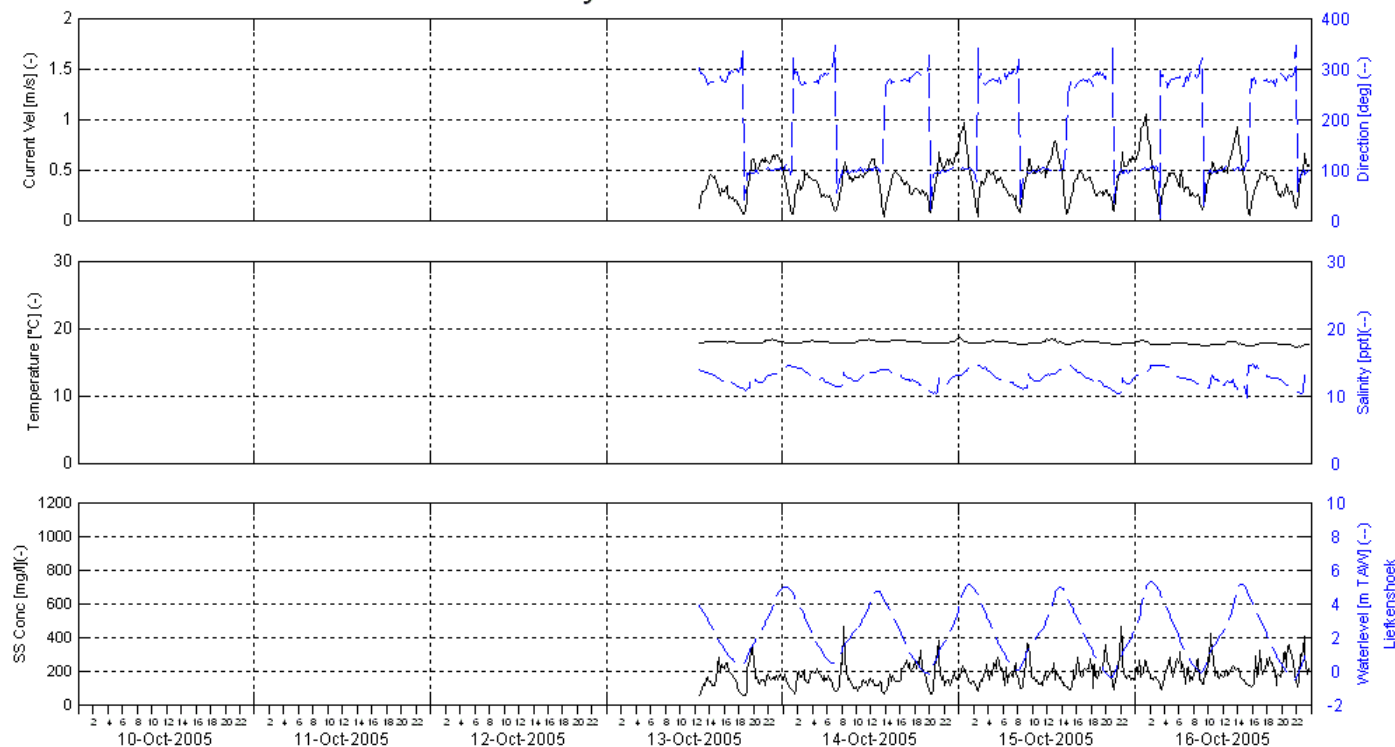
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 42 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

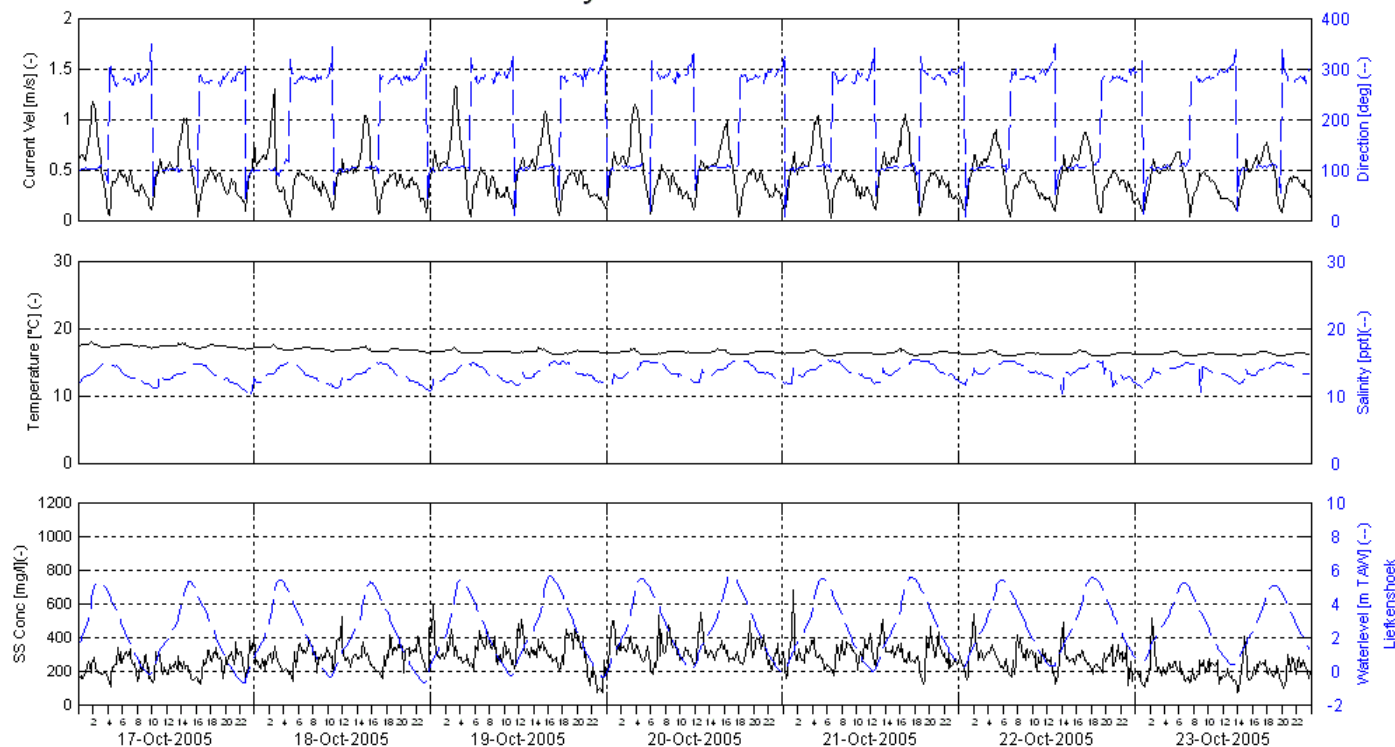
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 43 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

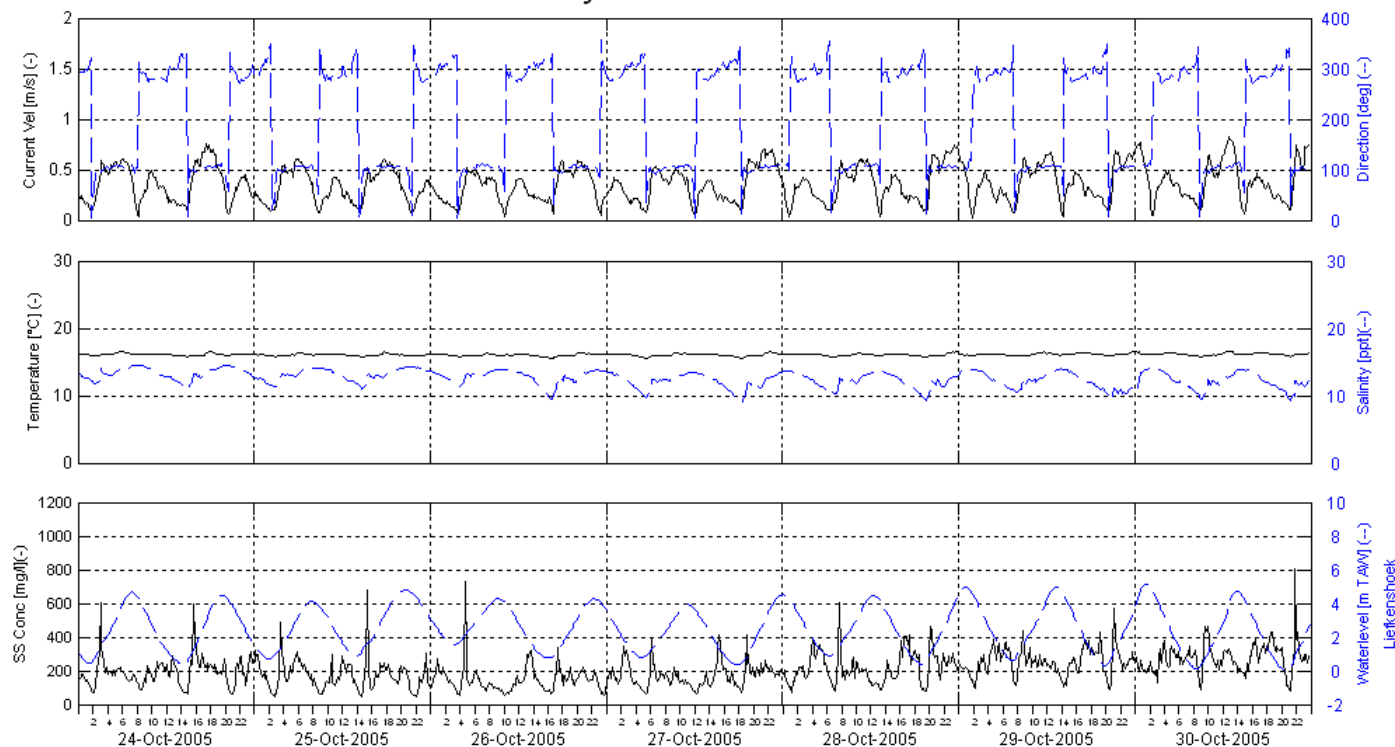
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 44 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

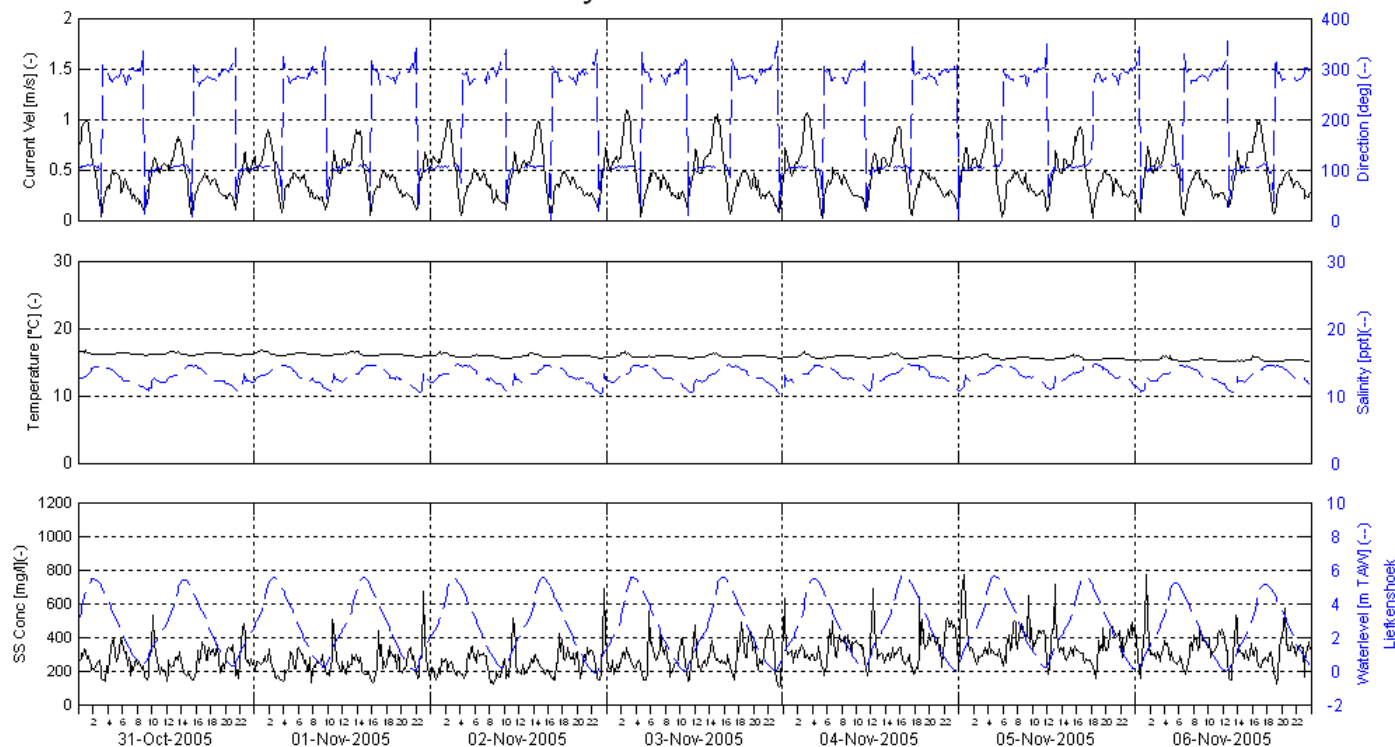
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 45 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

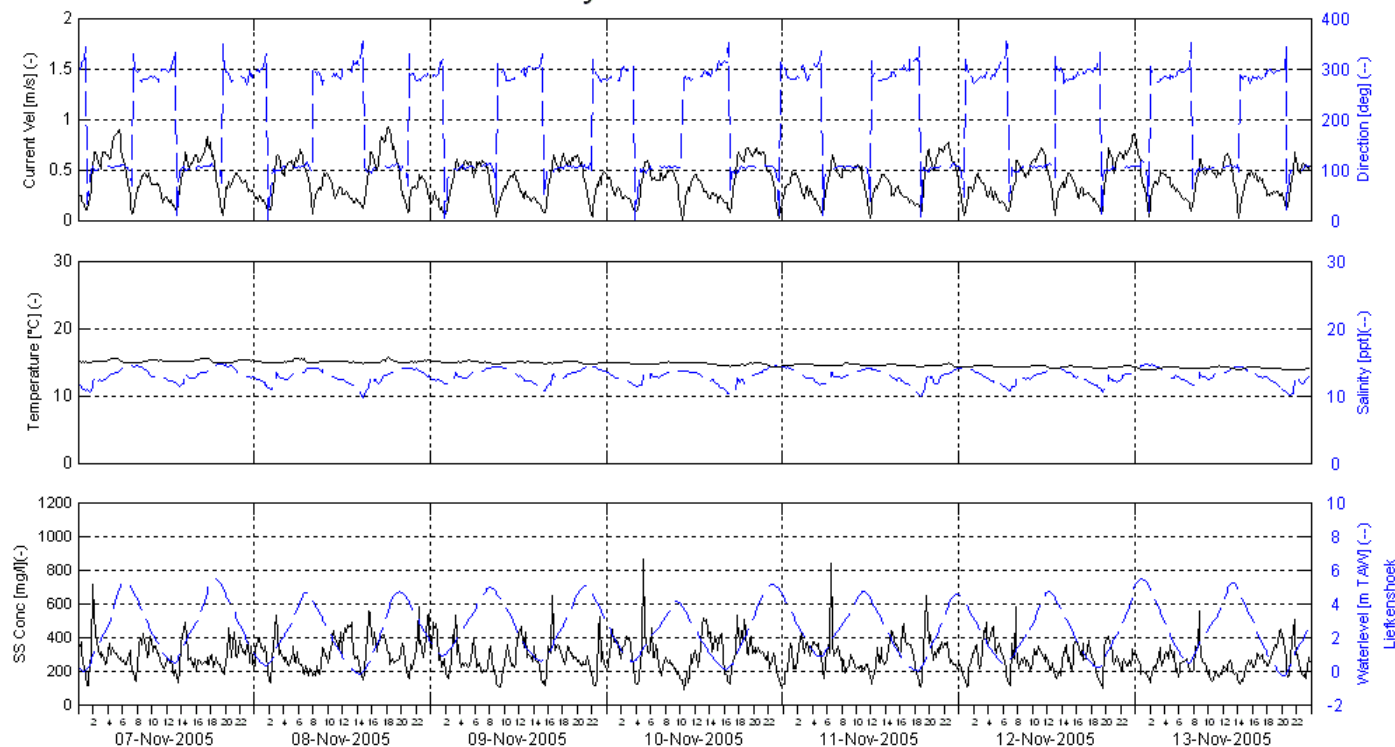
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 46 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

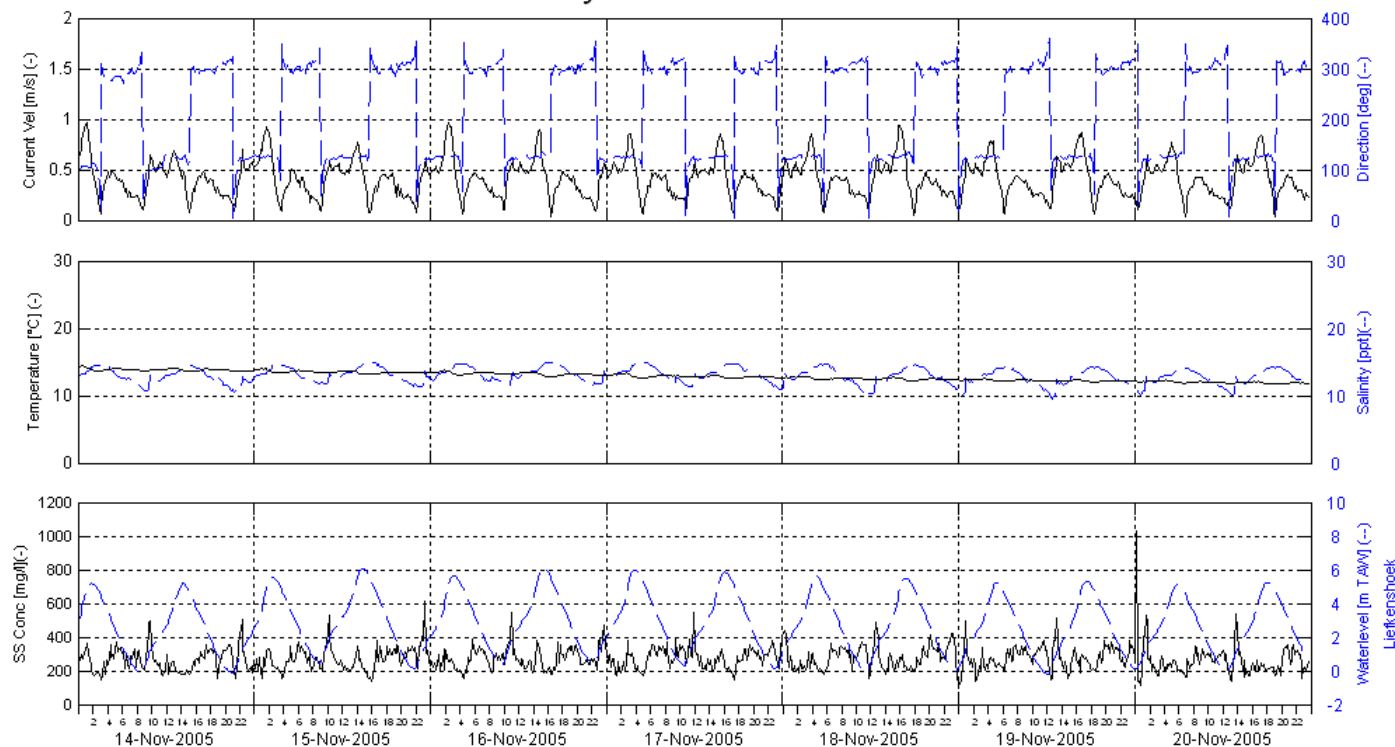
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 47 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

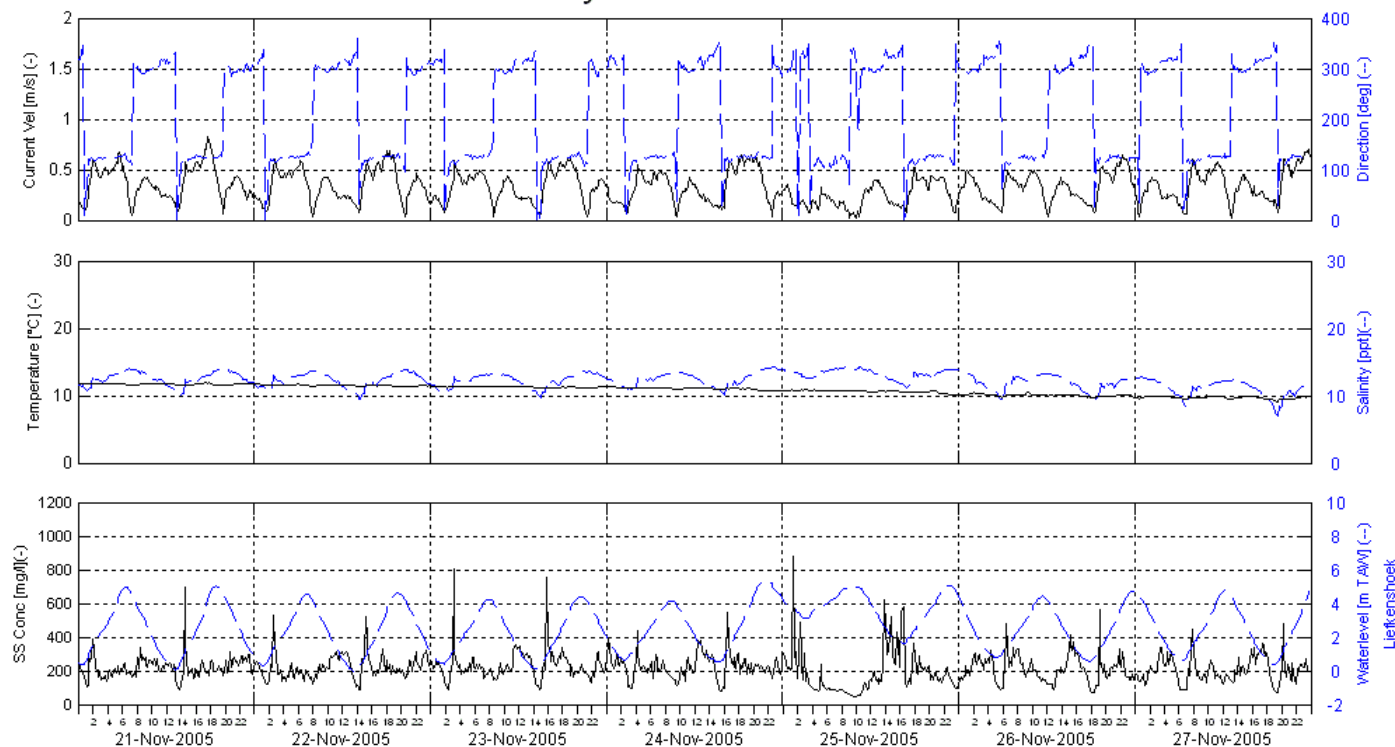
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 48 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

In association with:

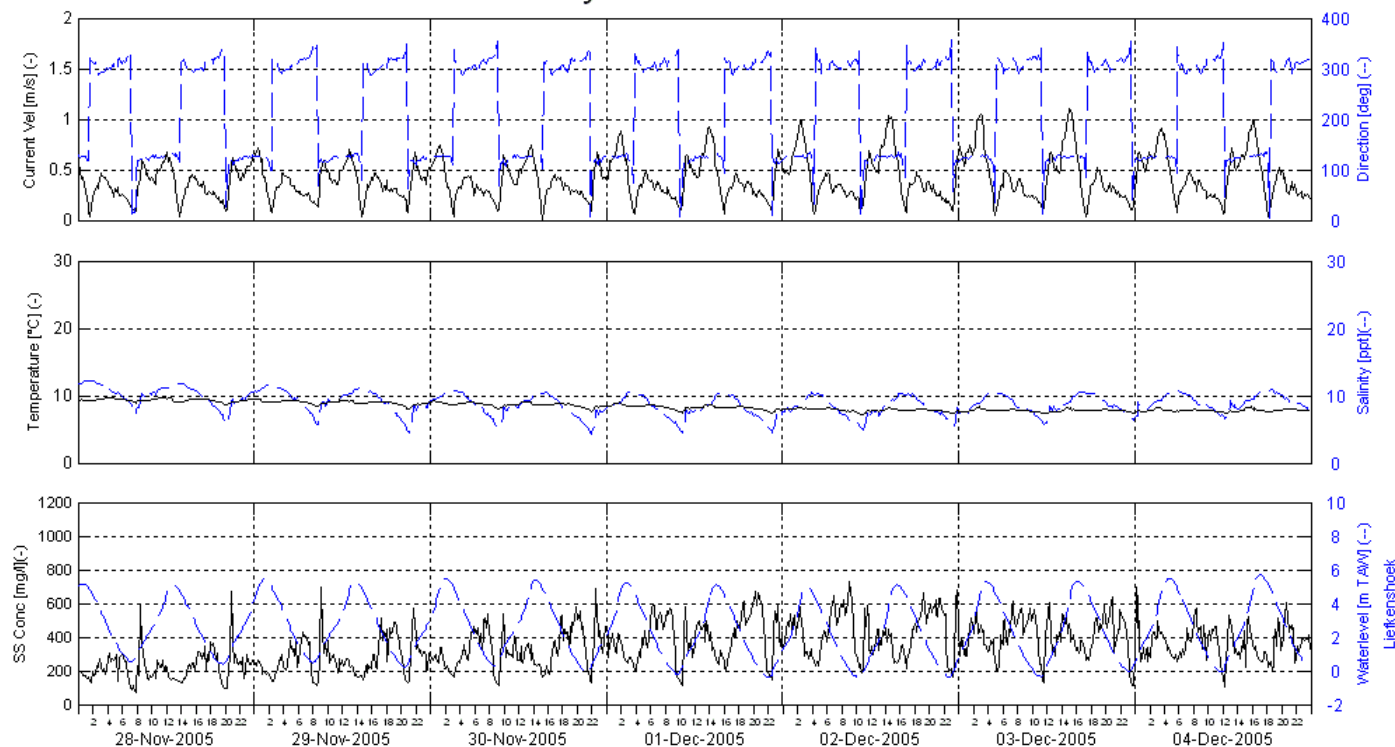


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 49 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

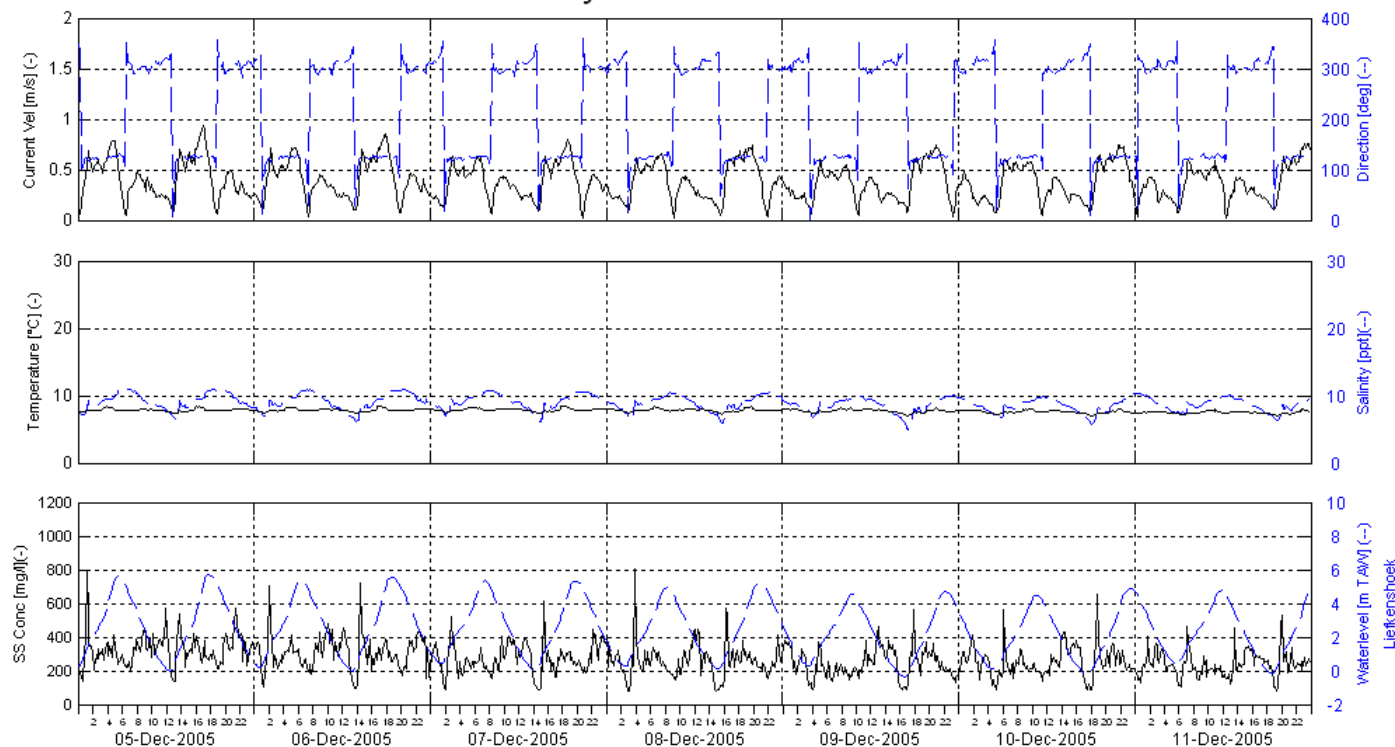
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 50 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

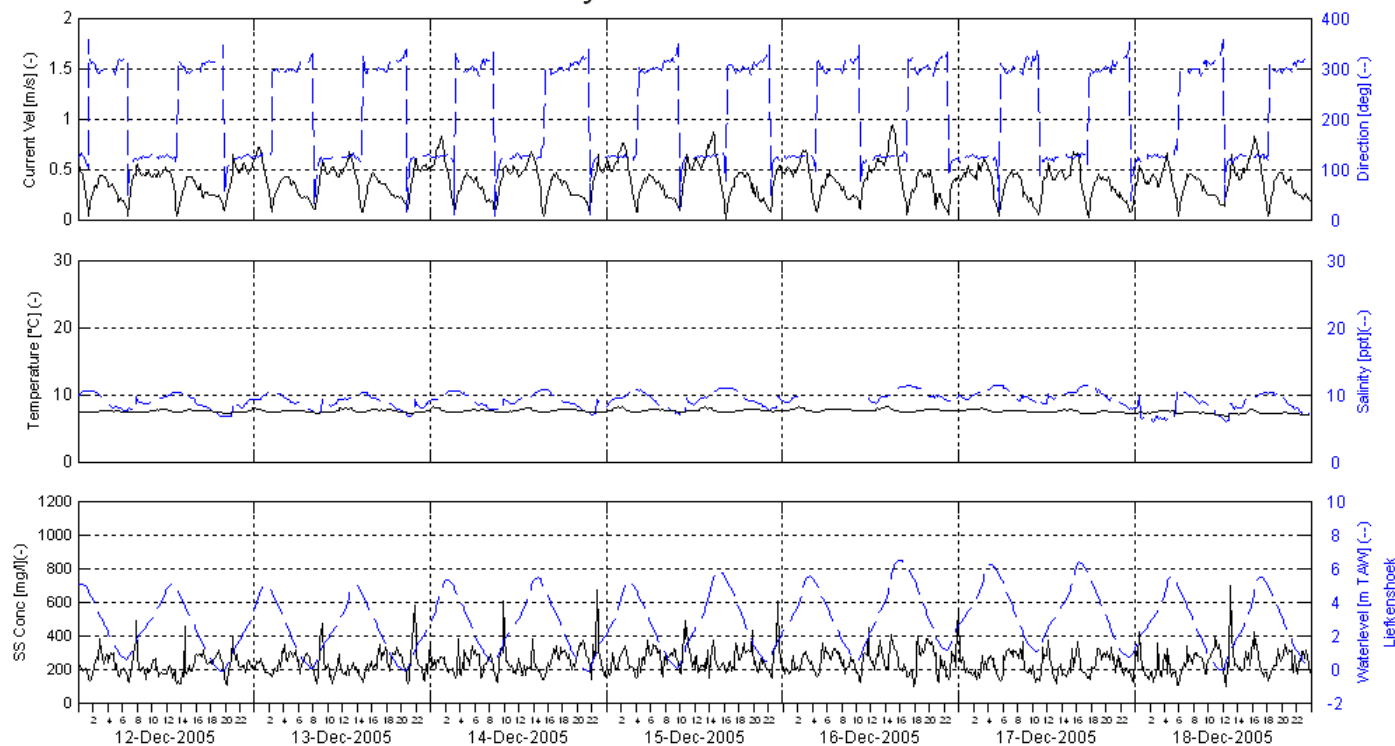
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 51 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

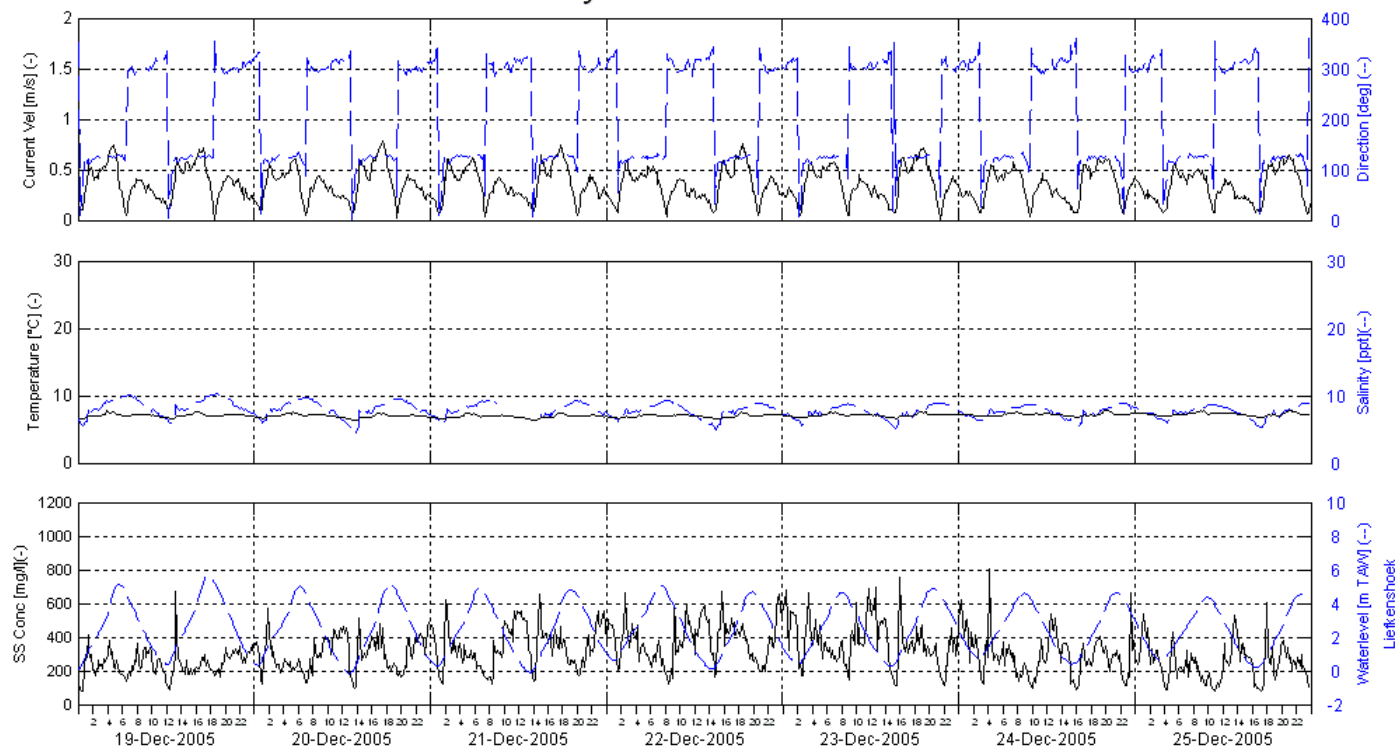
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 52 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

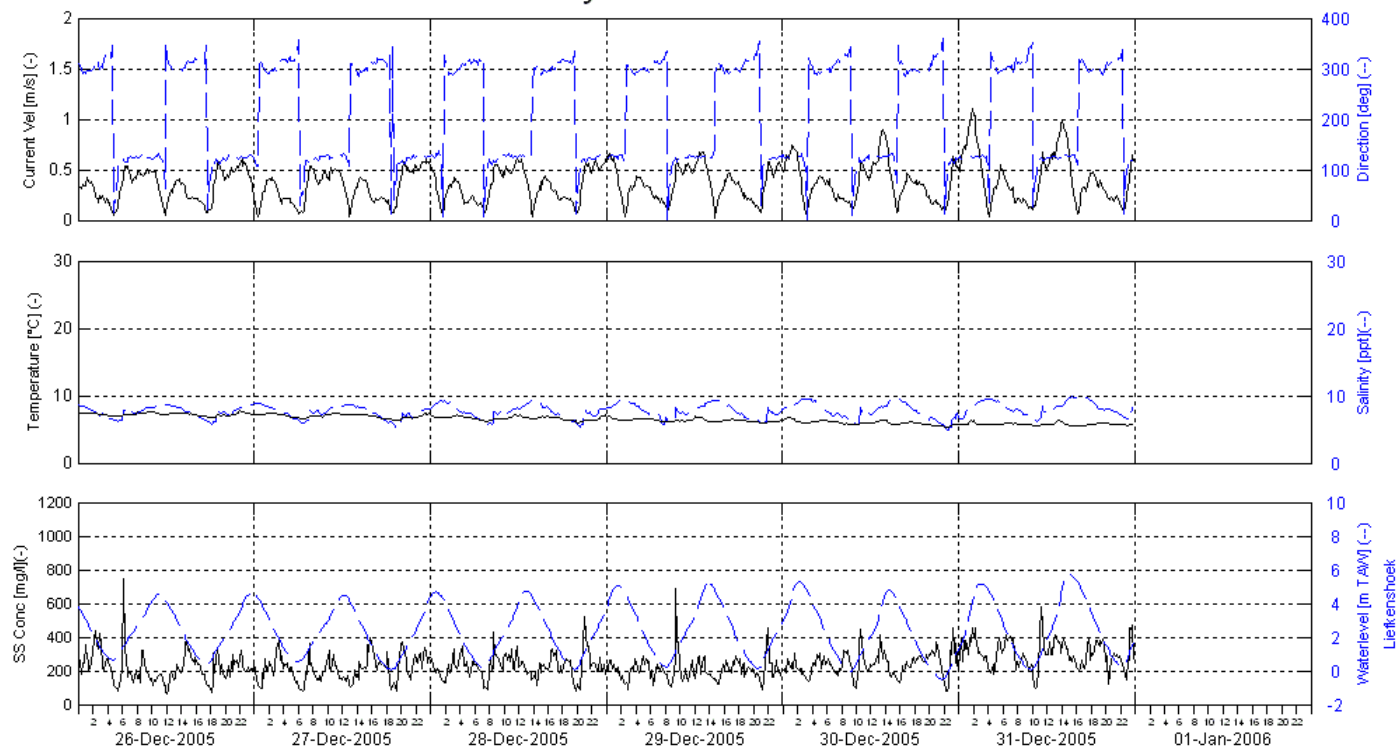
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy 97 Week 53 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 0.8m above bottom (-7.8m TAW)

In association with:



I/RA/11265/05.019/MSA



### **B.2.2. Tipped over frames**

**Buoy 84: 21/09/2005 – 13/10/2005 & 14/11/2005 – 31/12/2005**

**Buoy 97: 20/09/2005 – 13/10/2005**

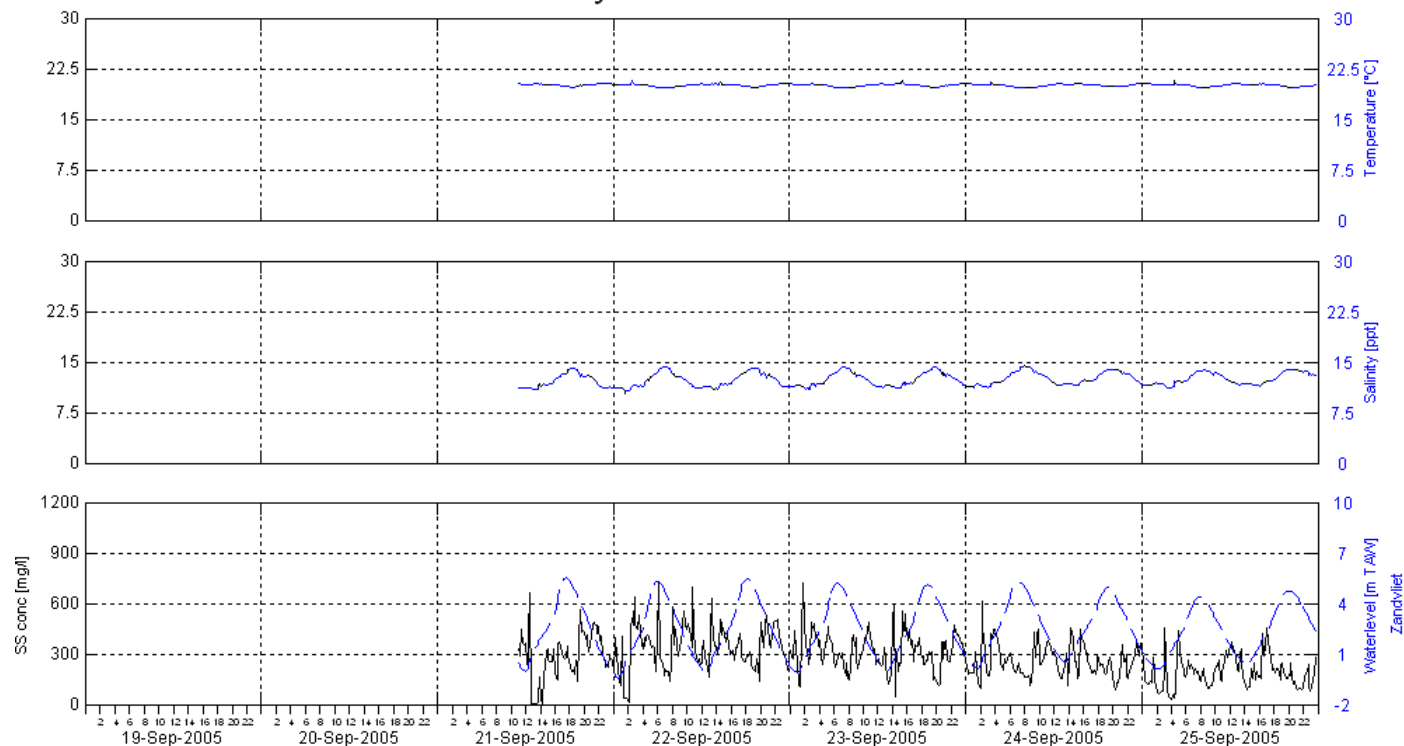
## Datasheet order

Nr	Location	Period	Depth of Instrument	
			[m] above bottom	[m TAW]
1	Buoy 84	21/09/2005 – 13/10/2005	0.4	-8.5
2	Buoy 84	21/09/2005 – 13/10/2005	1.0	-7.8
3	Buoy 84	14/11/2005 – 31/12/2005	0.7	-8.2
4	Buoy 84	14/11/2005 – 31/12/2005	1.3	-7.6
5	Buoy 97	20/09/2005 – 13/10/2005	1.3	-7.3
6	Buoy 97	20/09/2005 – 13/10/2005	1.1	-7.5



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 39 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.4m above bottom (-8.5m TAW)

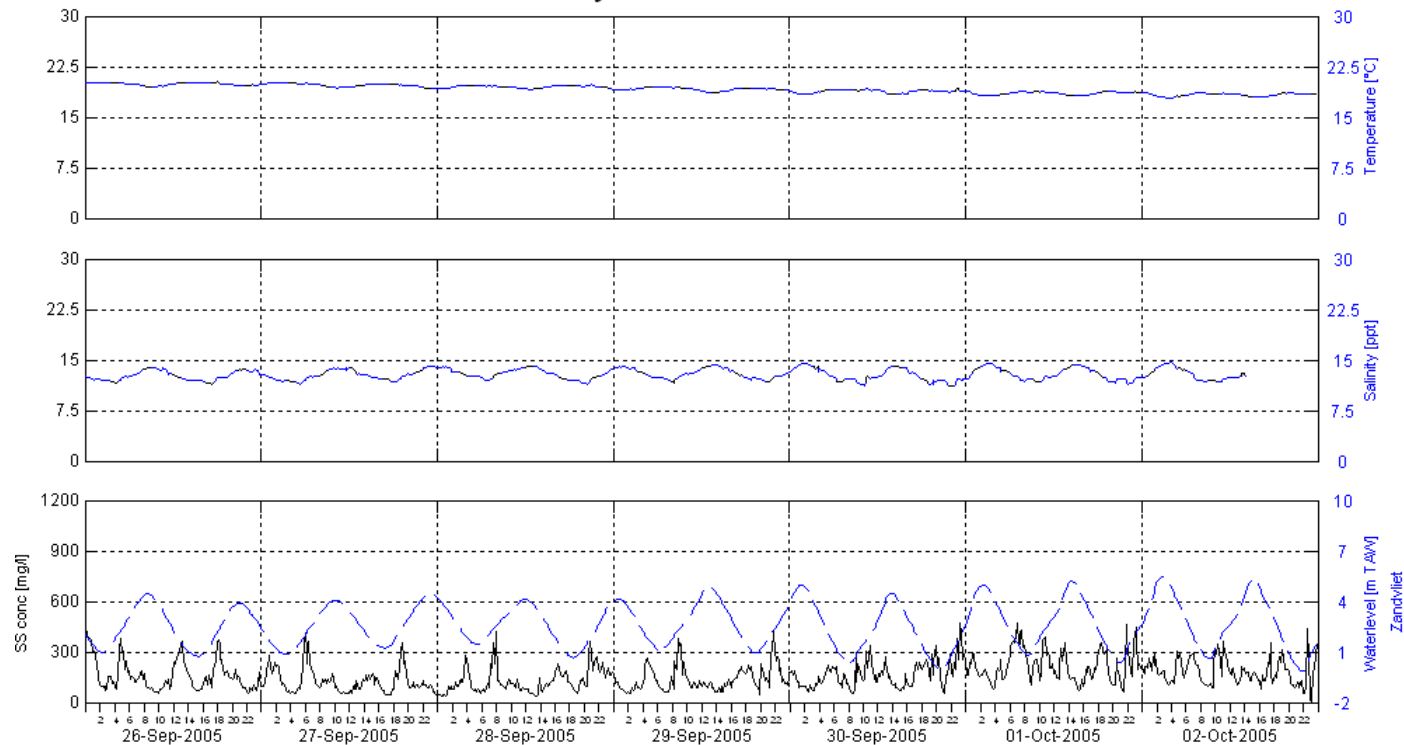
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 40 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.4m above bottom (-8.5m TAW)

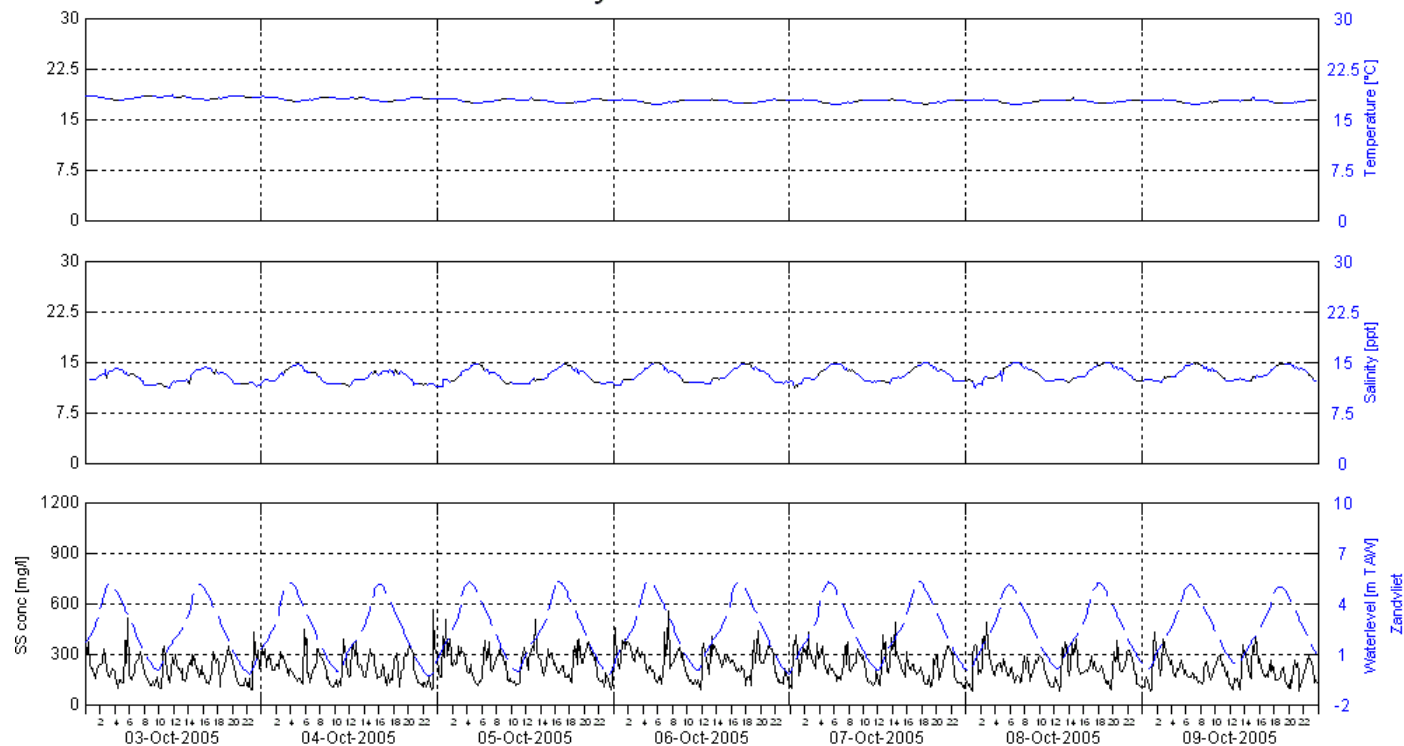
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 41 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.4m above bottom (-8.5m TAW)

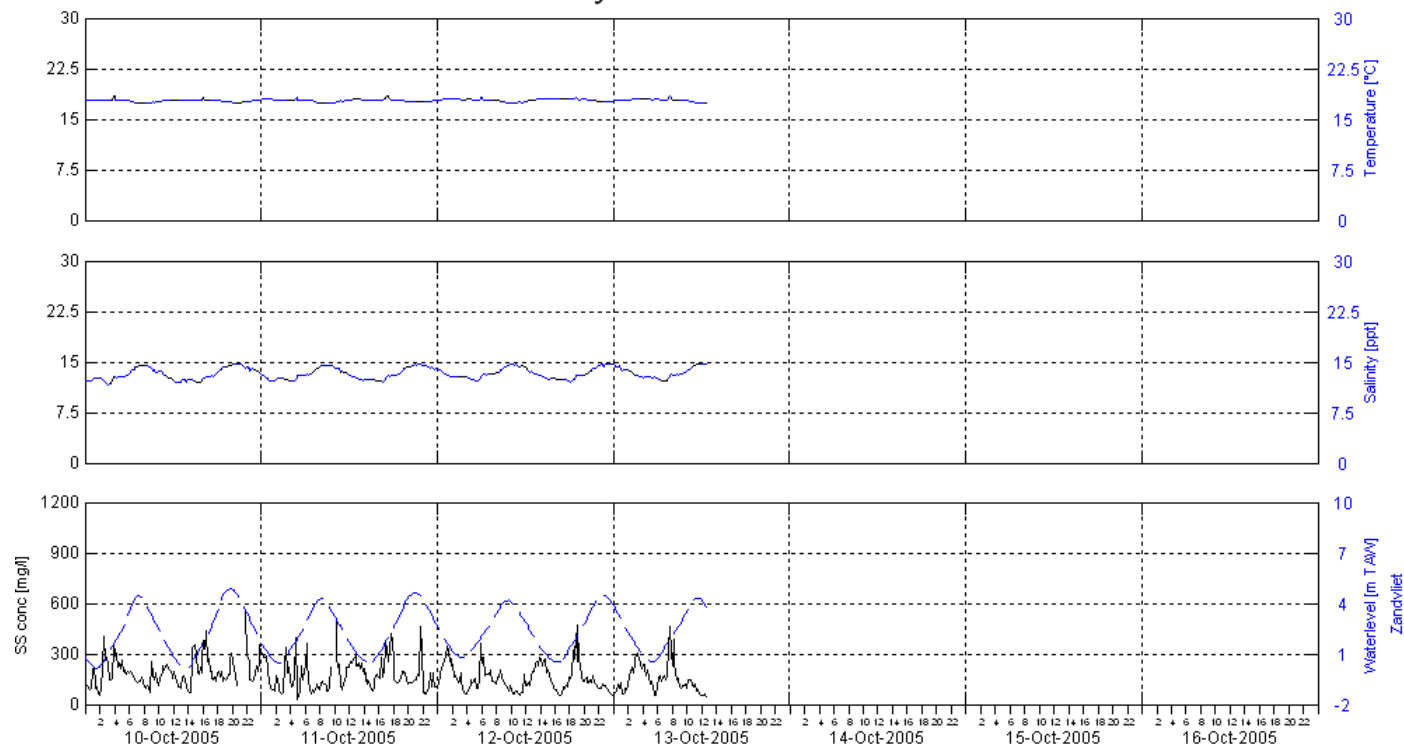
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 42 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.4m above bottom (-8.5m TAW)

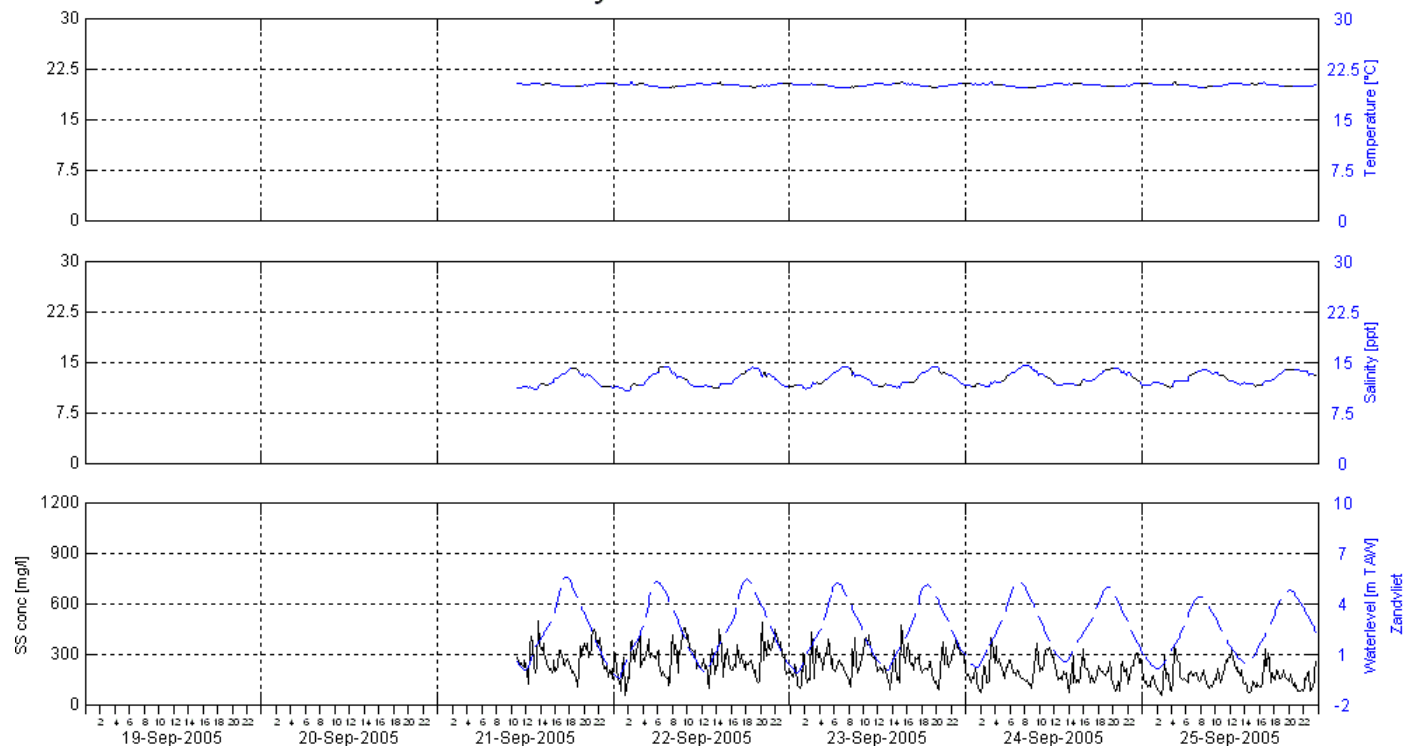
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 39 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.0m above bottom (-7.8m TAW)

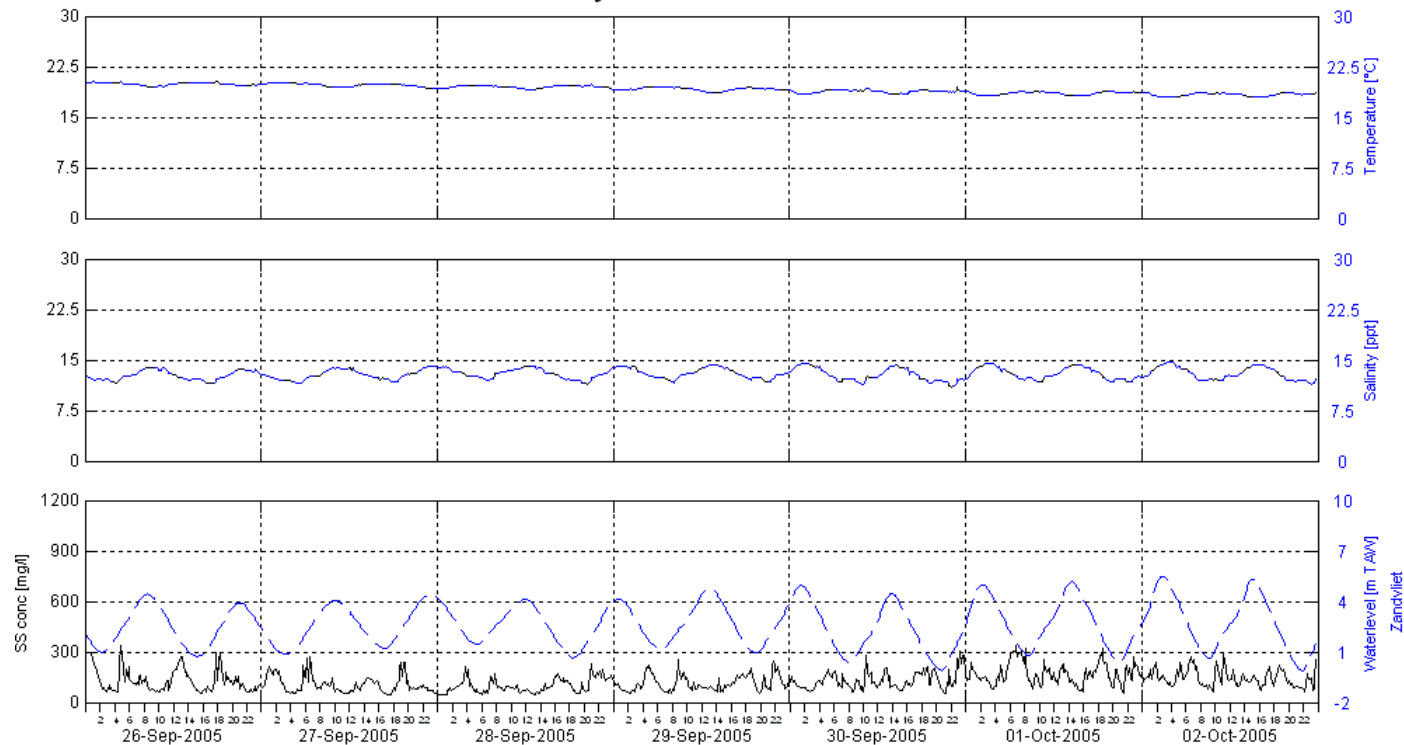
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 40 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.0m above bottom (-7.8m TAW)

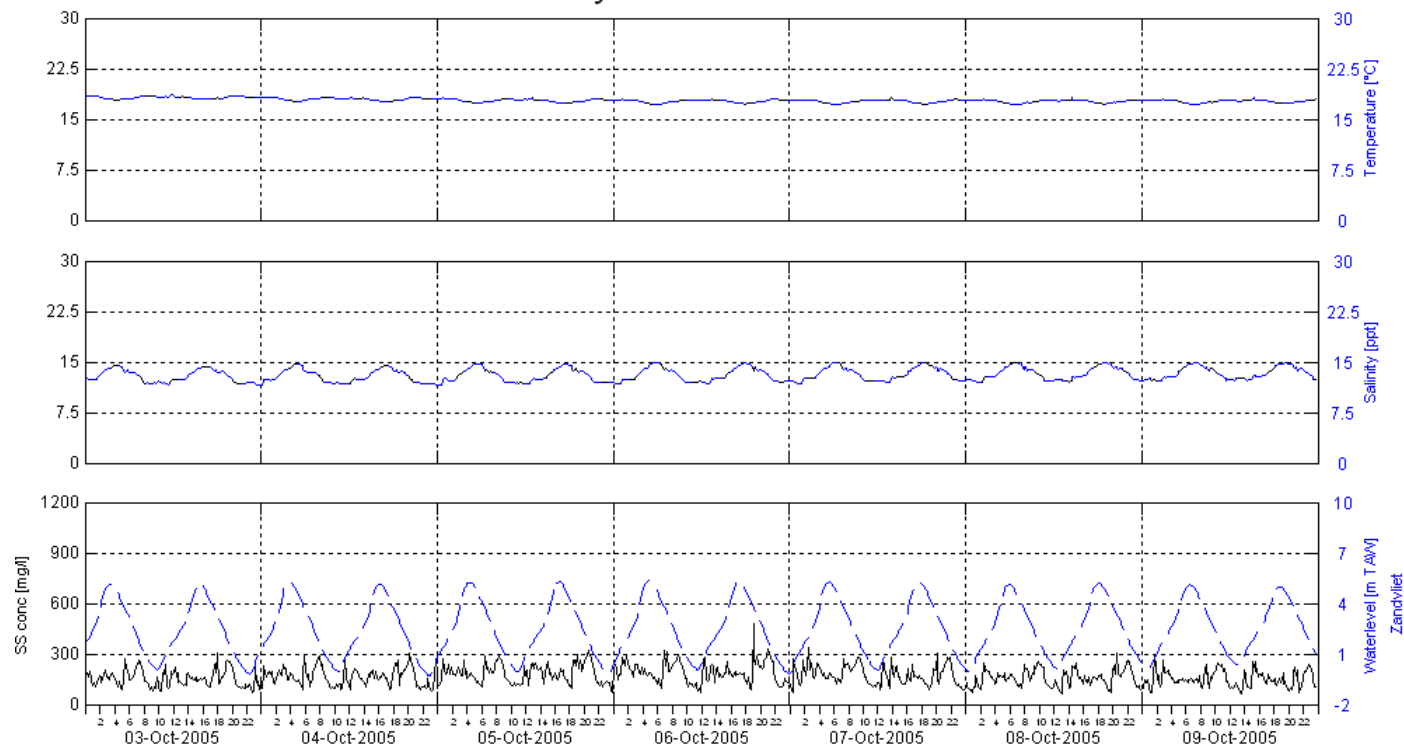
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 41 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.0m above bottom (-7.8m TAW)

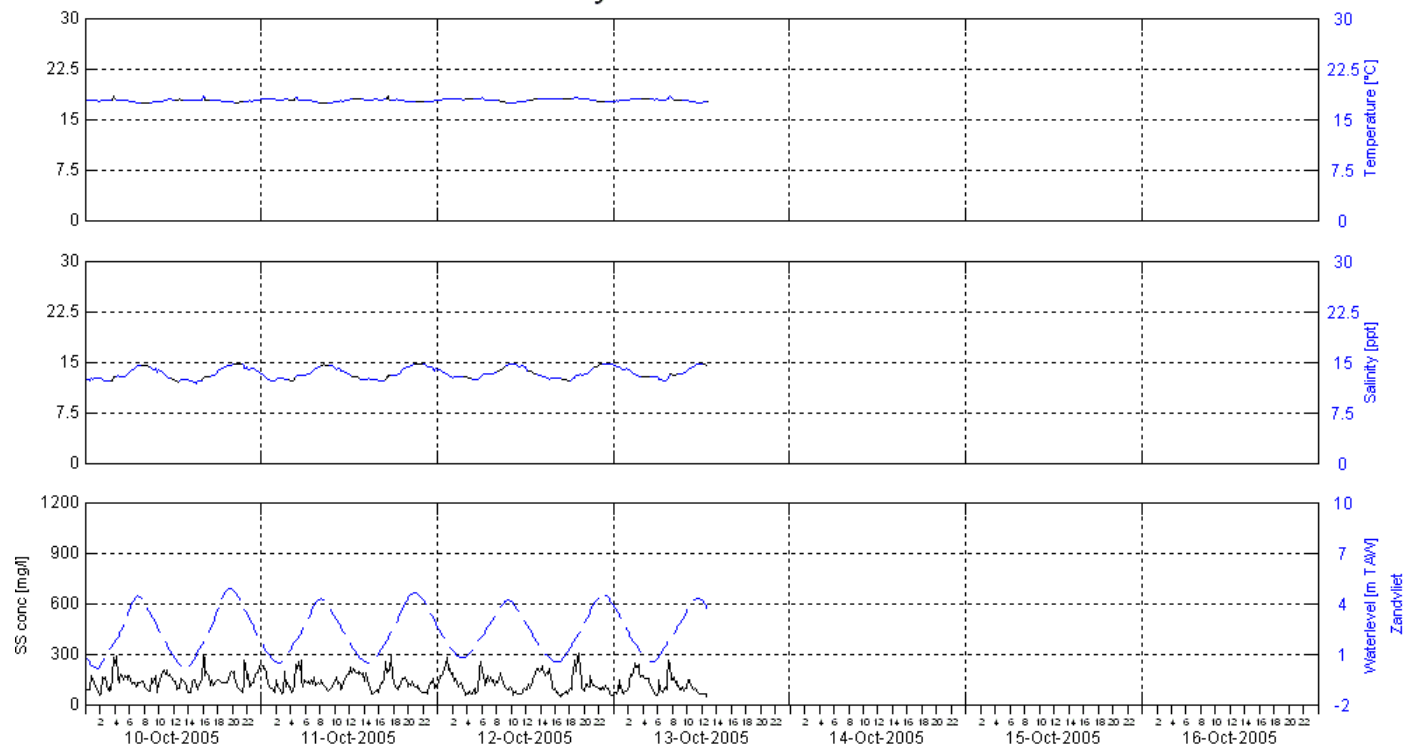
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 42 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.0m above bottom (-7.8m TAW)

In association with:

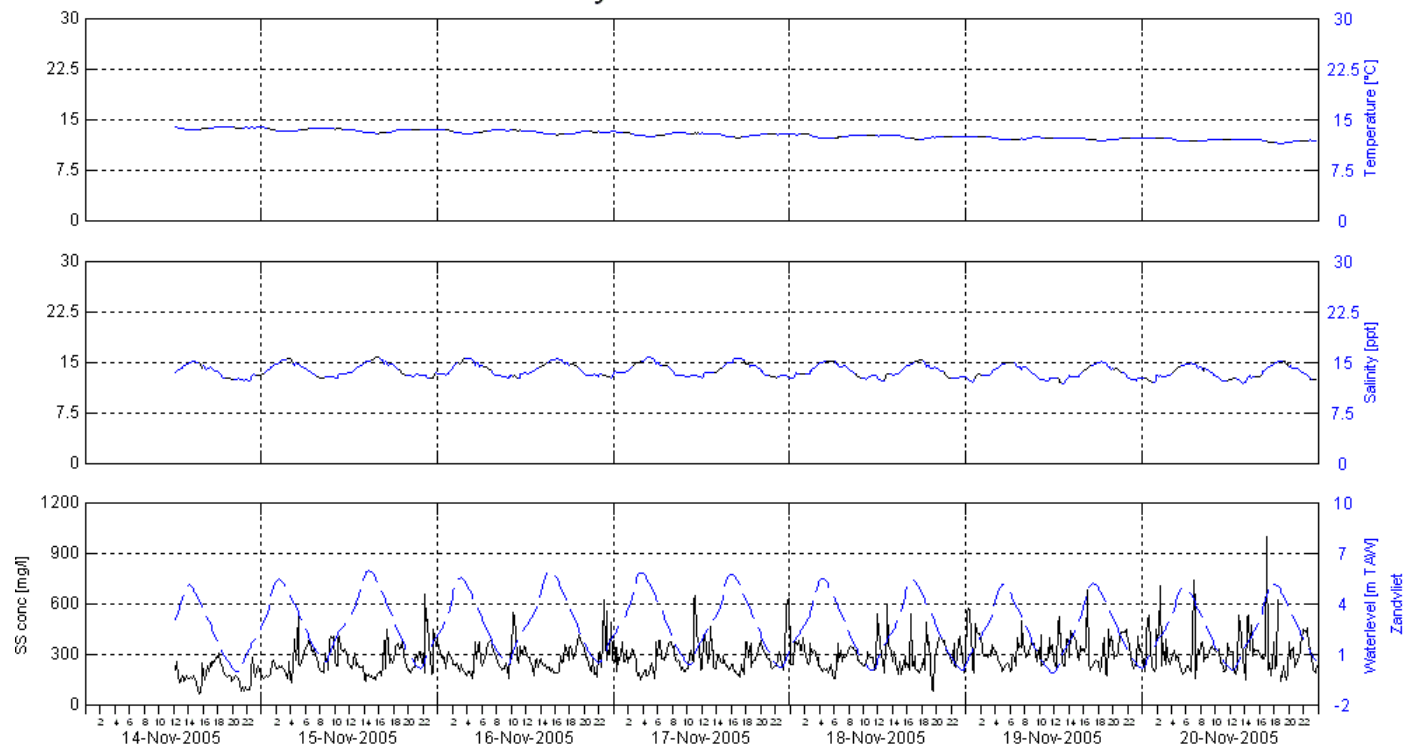


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 47 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.7m above bottom (-8.2m TAW)

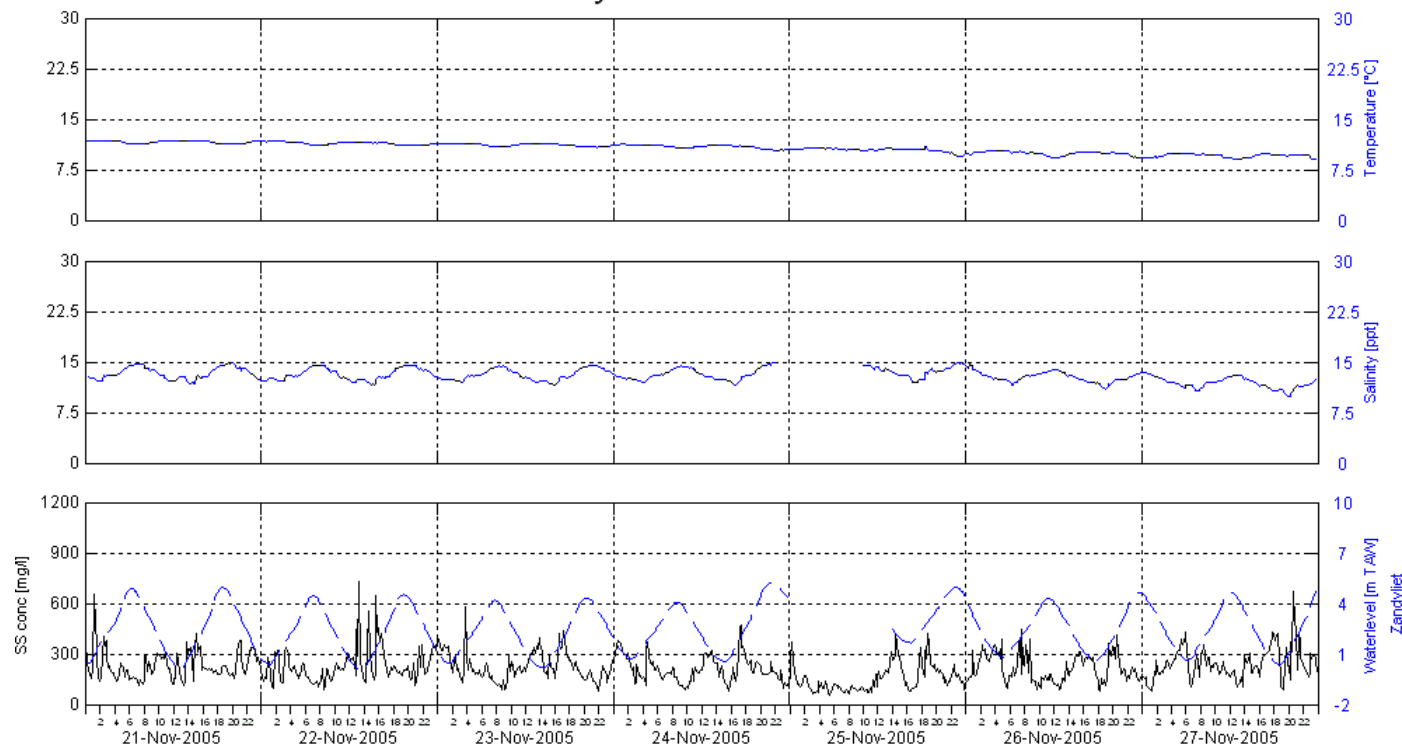
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 48 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.7m above bottom (-8.2m TAW)

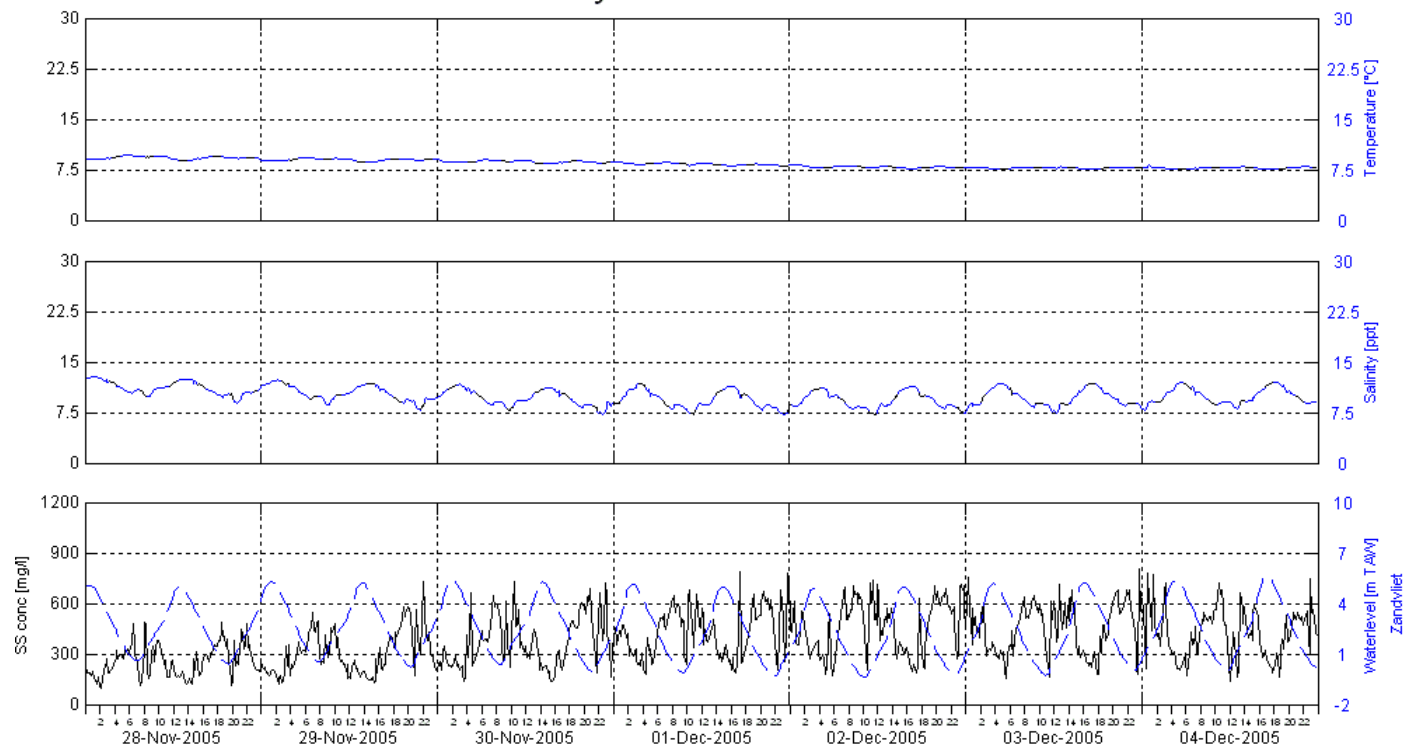
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 49 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.7m above bottom (-8.2m TAW)

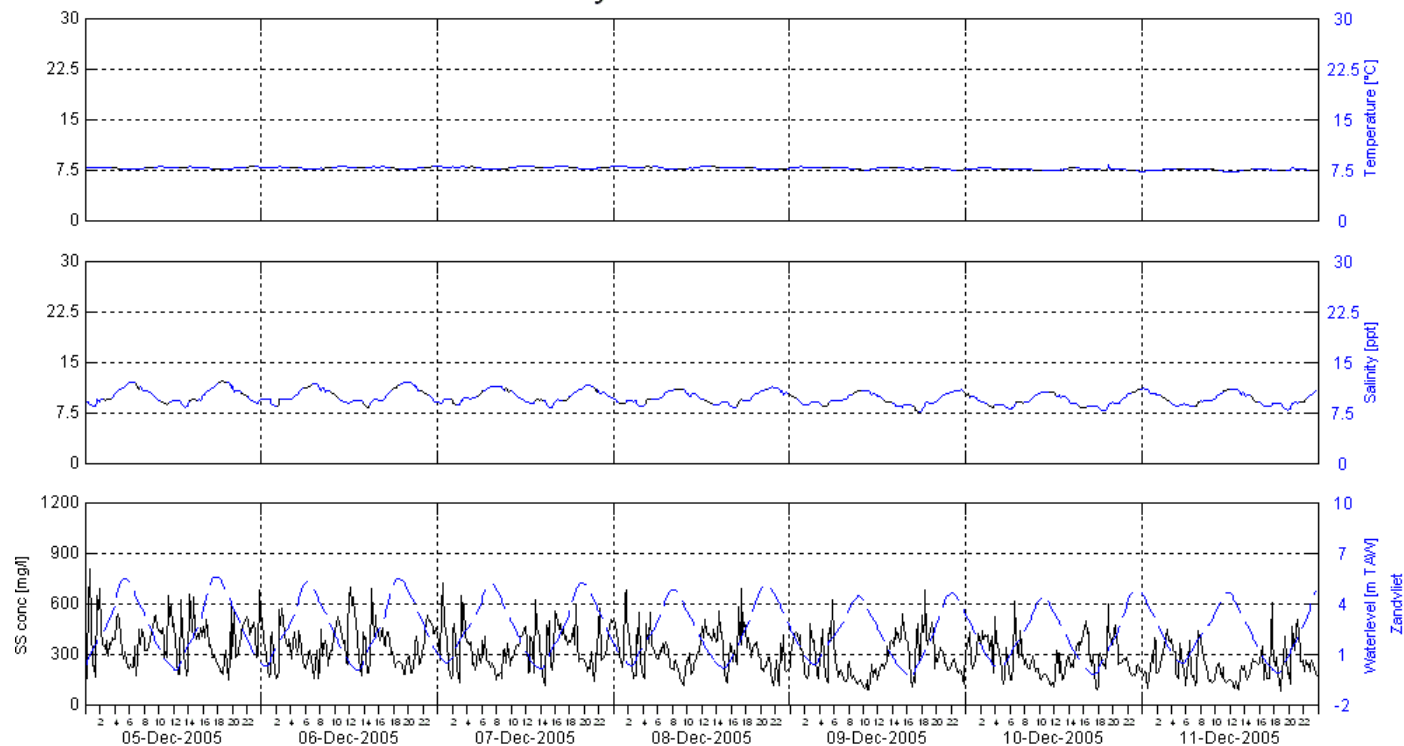
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 50 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.7m above bottom (-8.2m TAW)

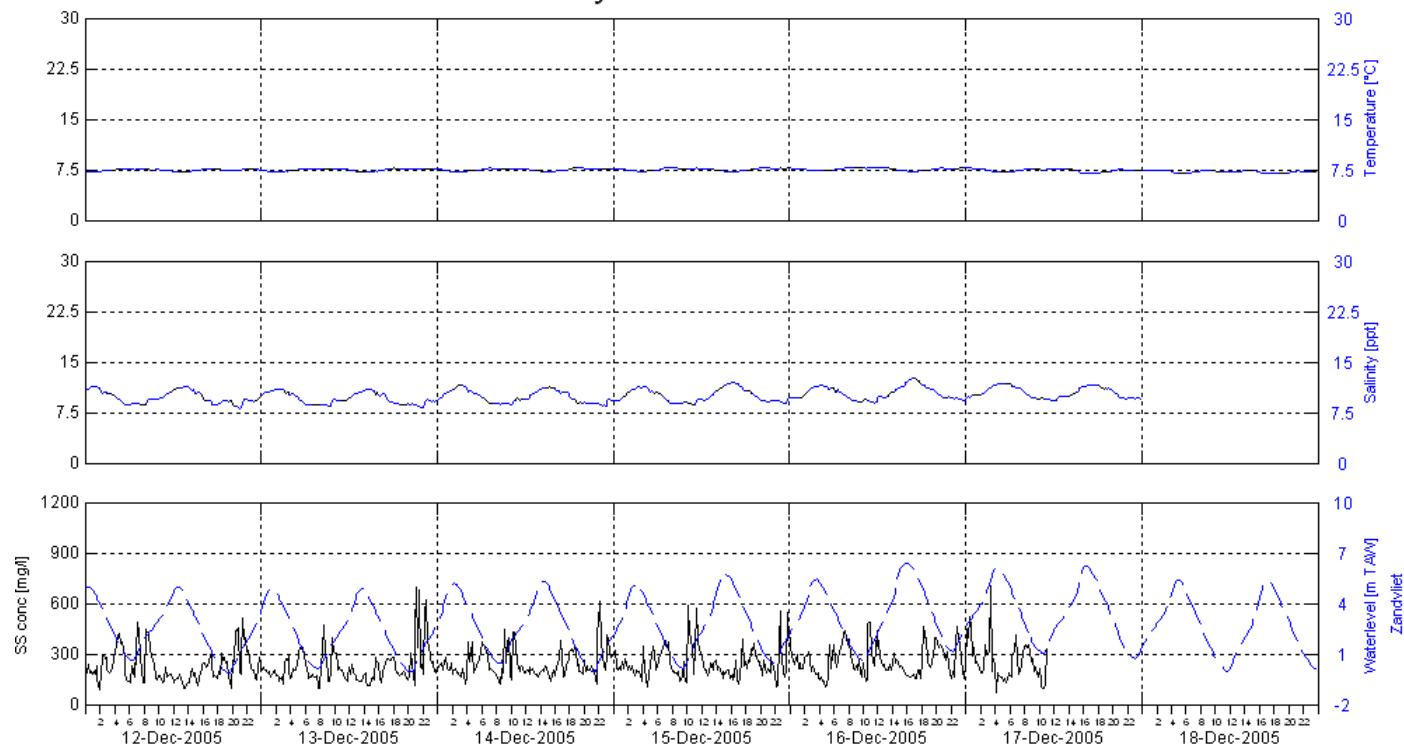
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 51 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.7m above bottom (-8.2m TAW)

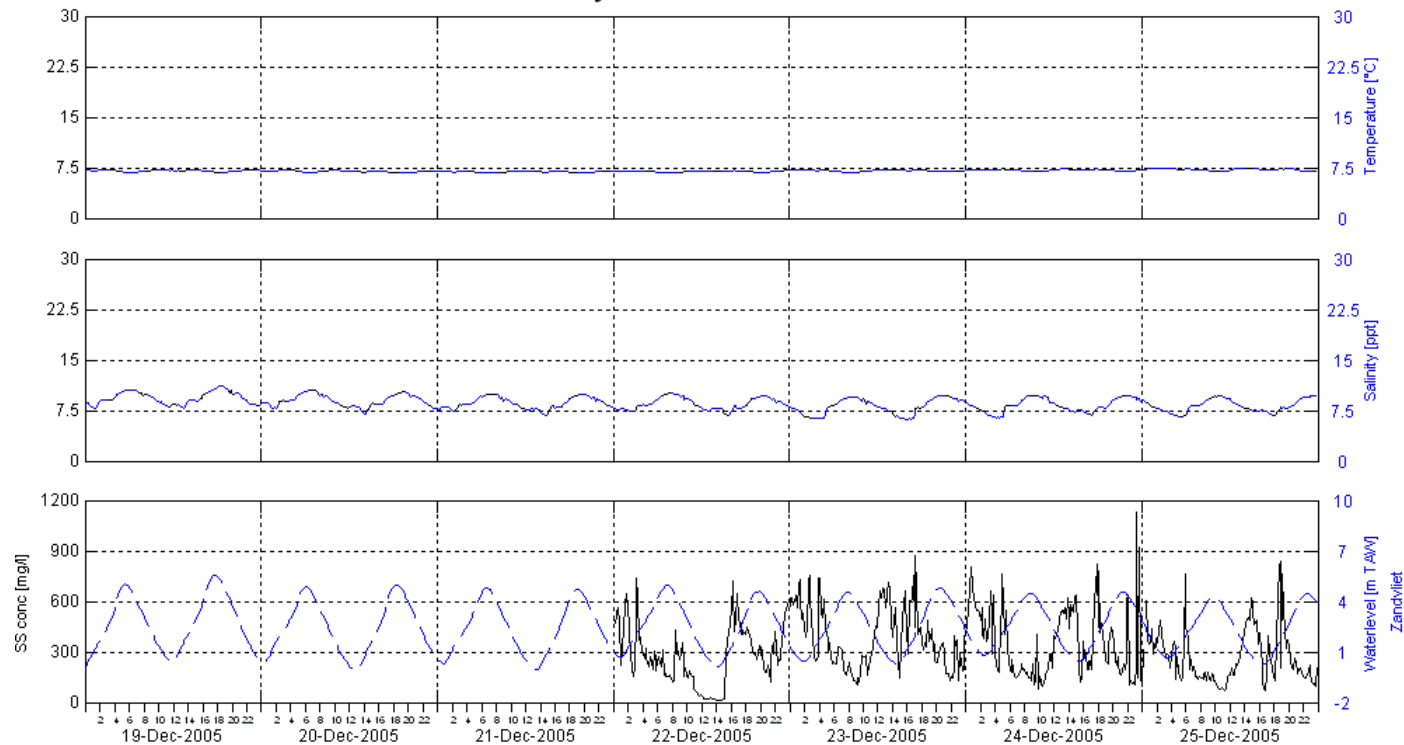
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 52 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.7m above bottom (-8.2m TAW)

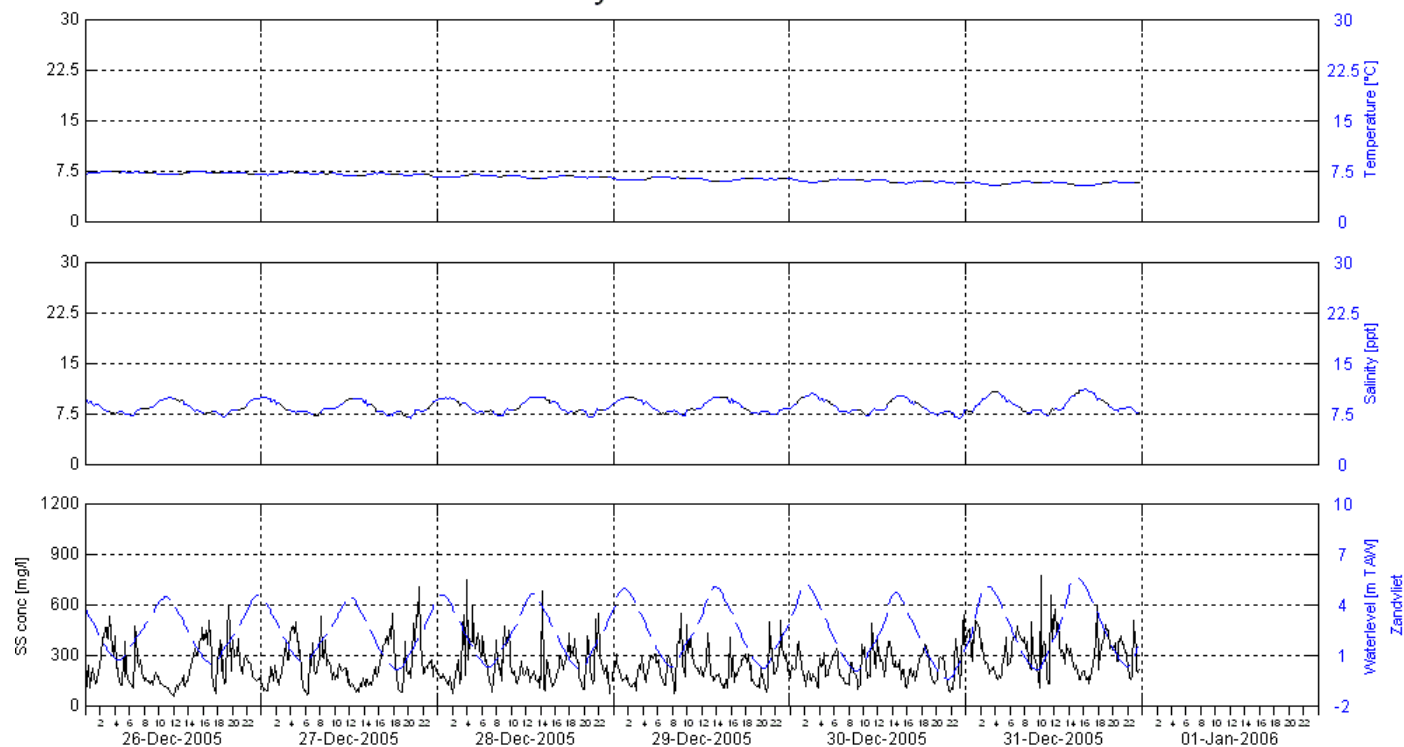
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 53 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 0.7m above bottom (-8.2m TAW)

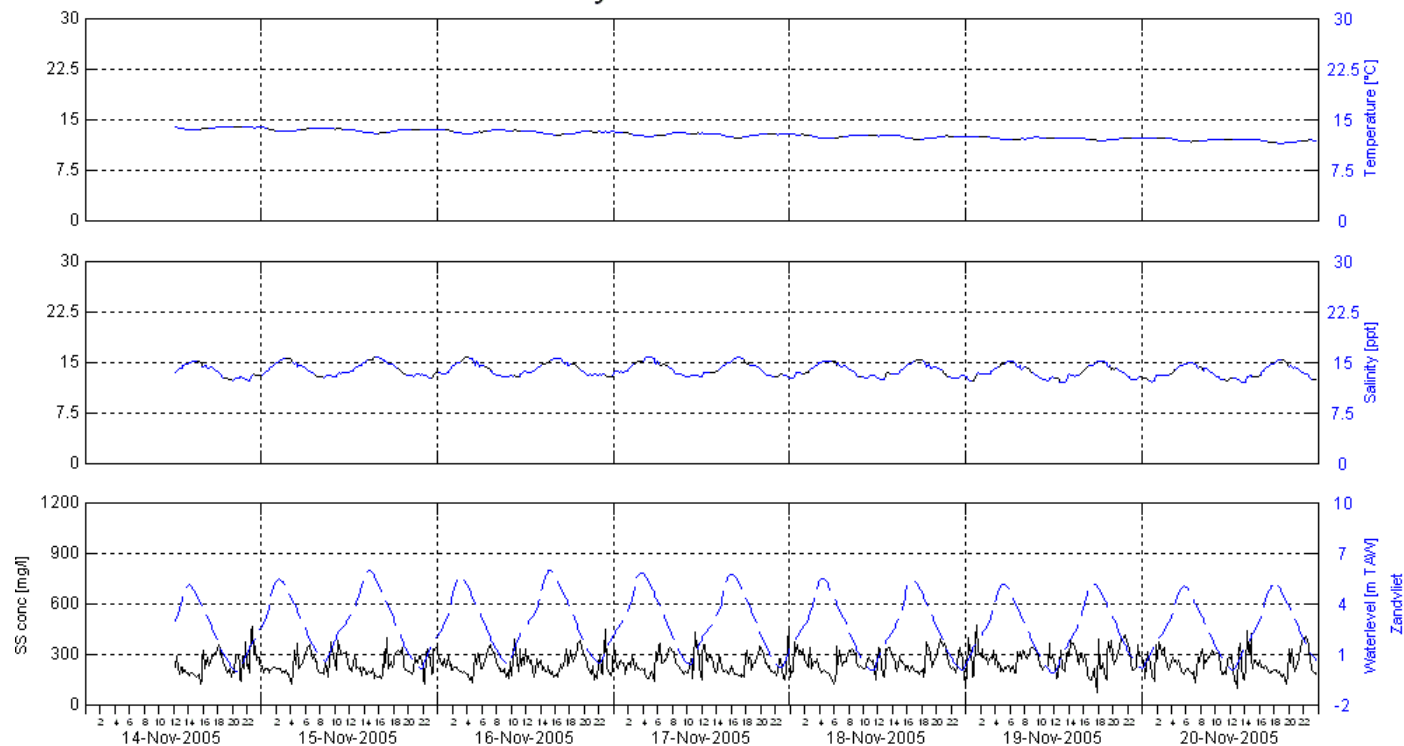
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 47 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.3m above bottom (-7.6m TAW)

In association with:

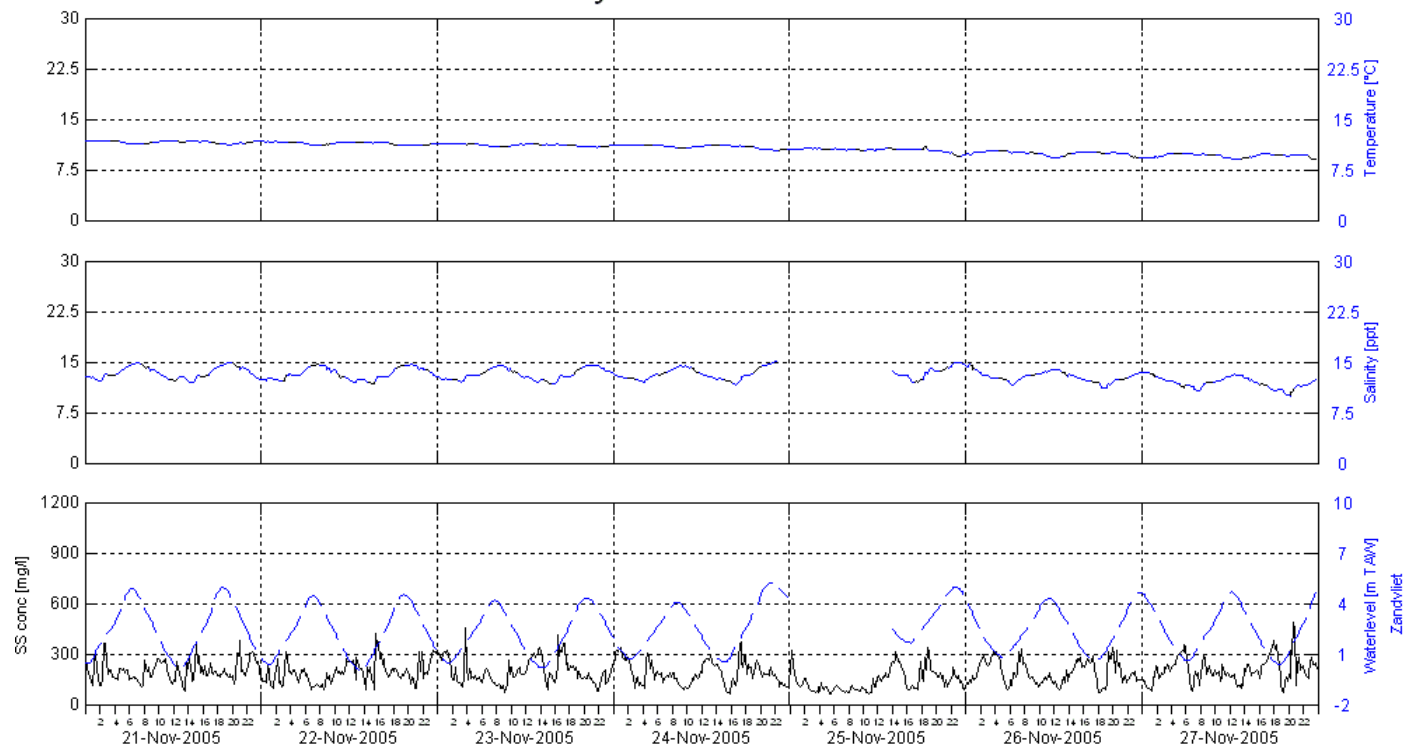


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 48 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.3m above bottom (-7.6m TAW)

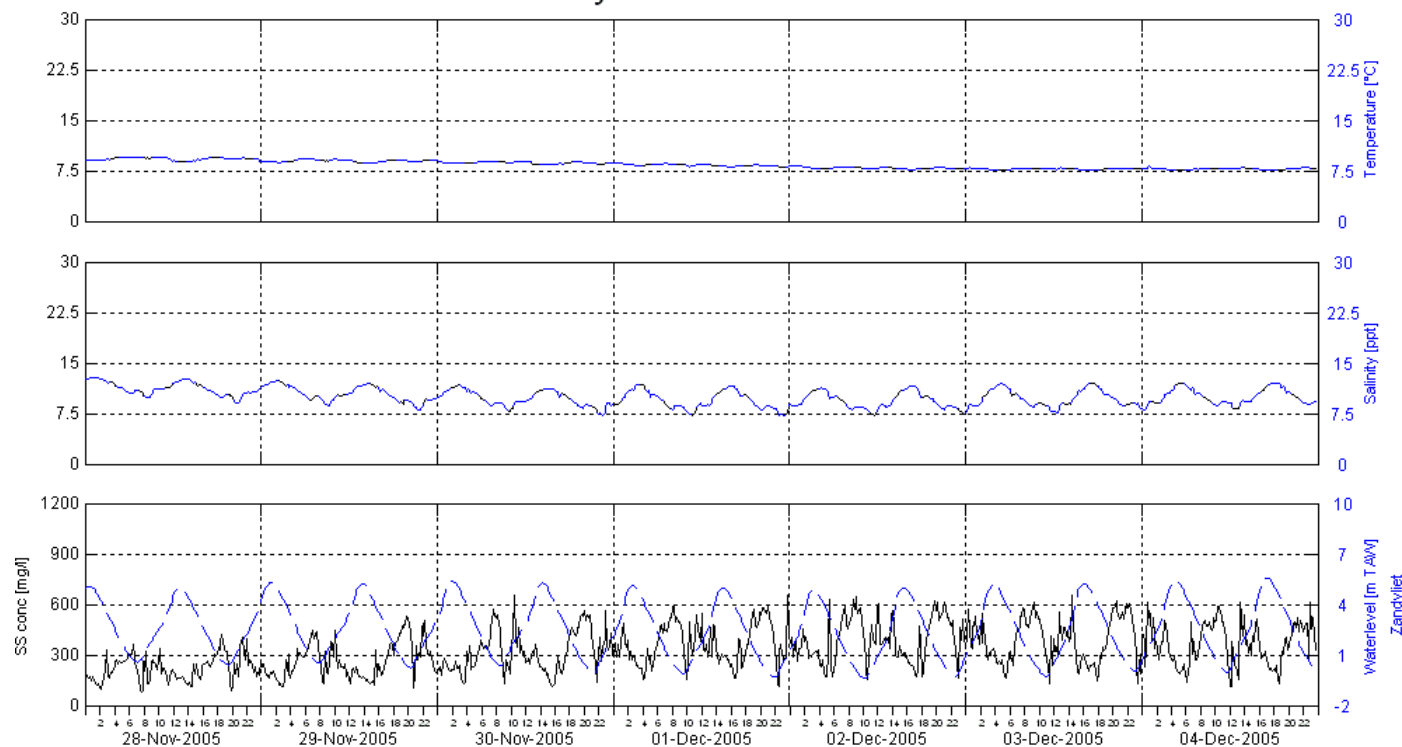
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 49 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.3m above bottom (-7.6m TAW)

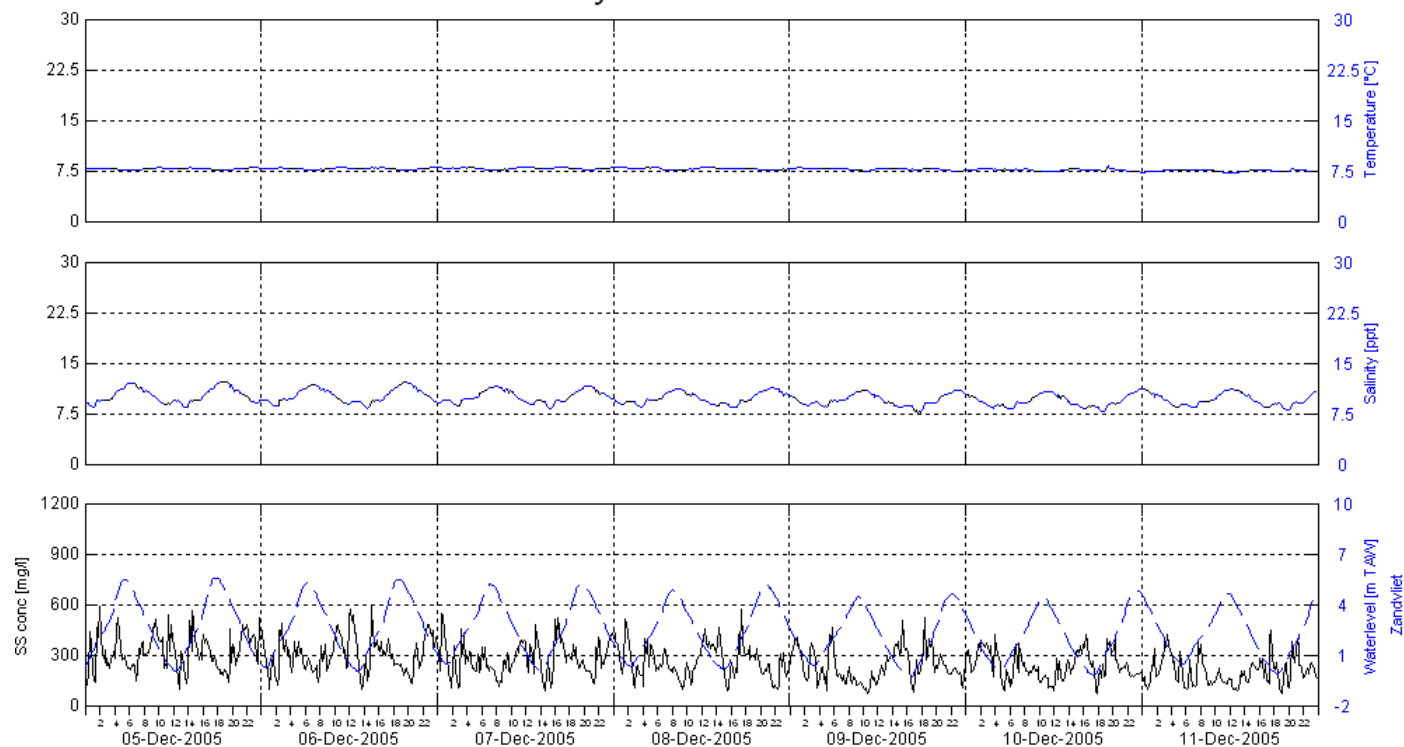
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 50 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.3m above bottom (-7.6m TAW)

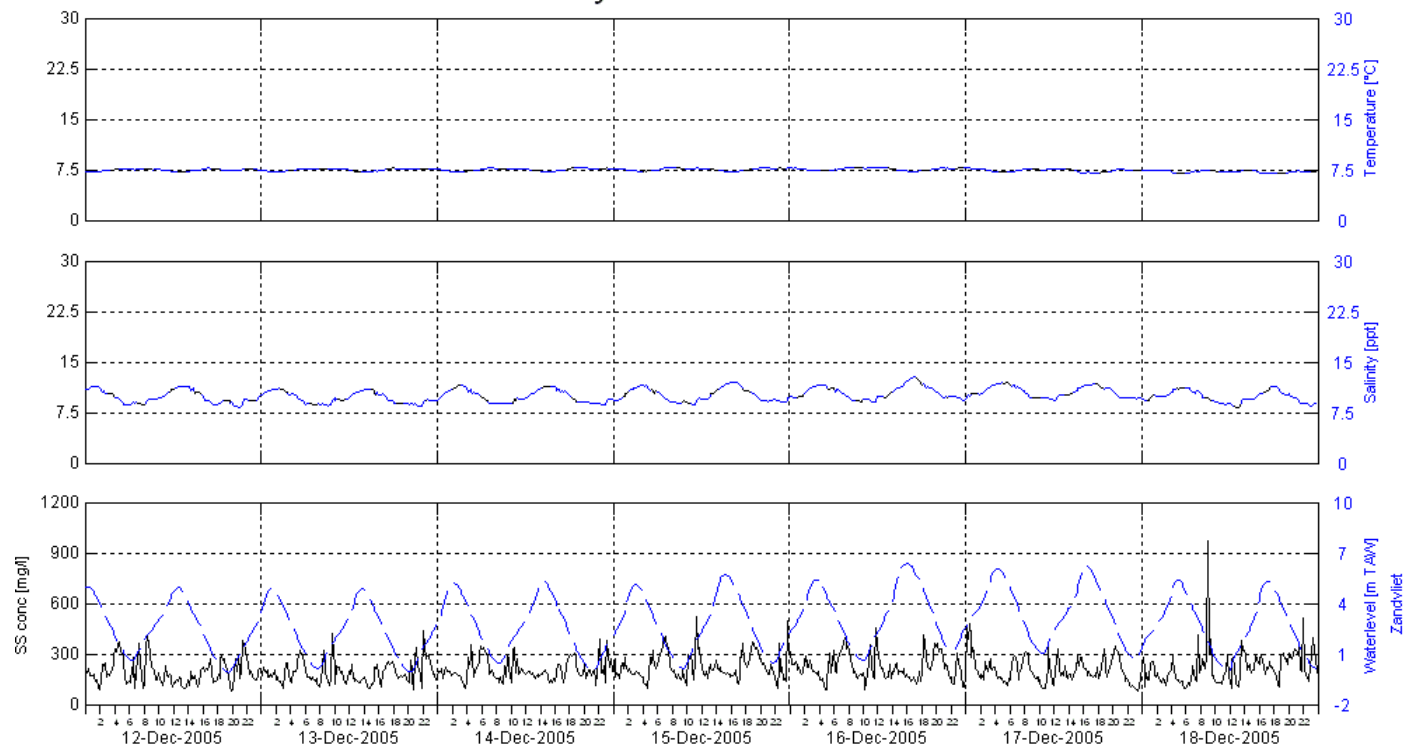
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 51 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.3m above bottom (-7.6m TAW)

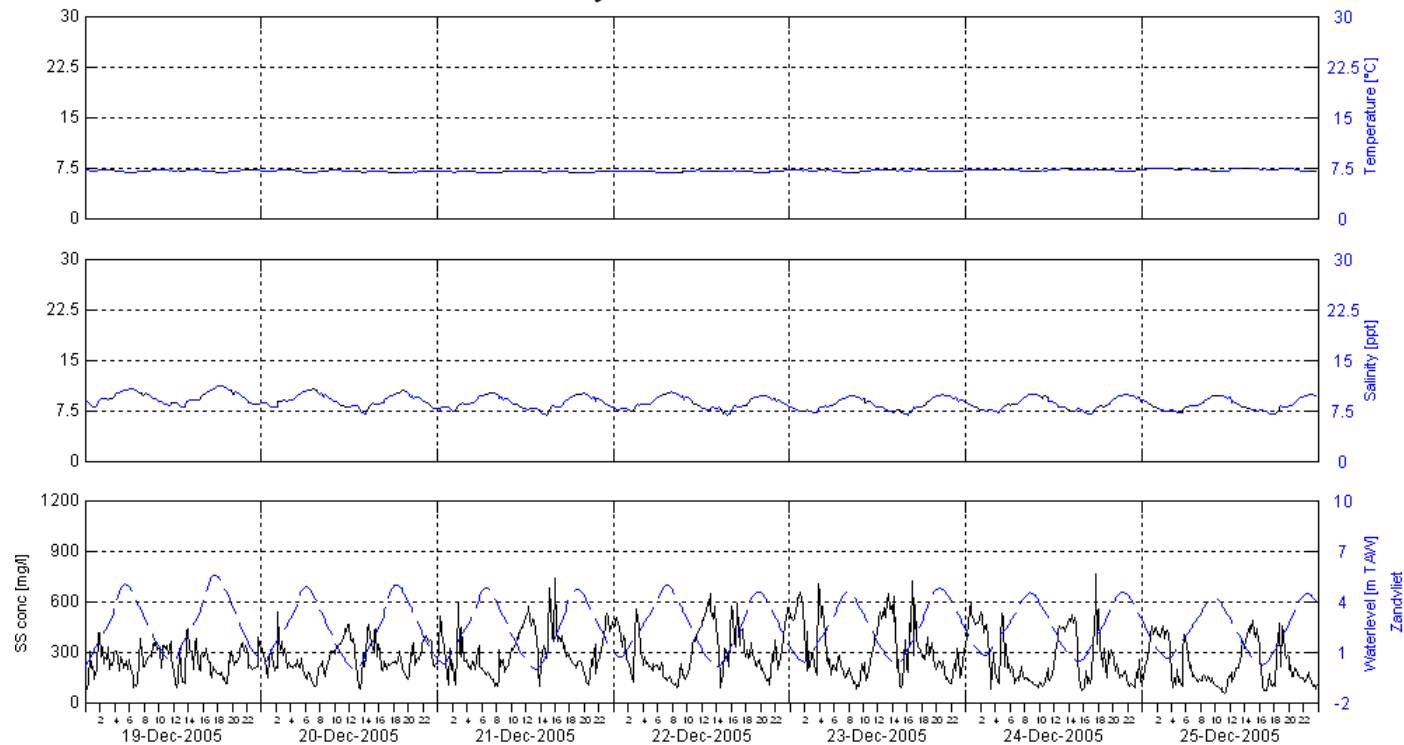
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 52 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.3m above bottom (-7.6m TAW)

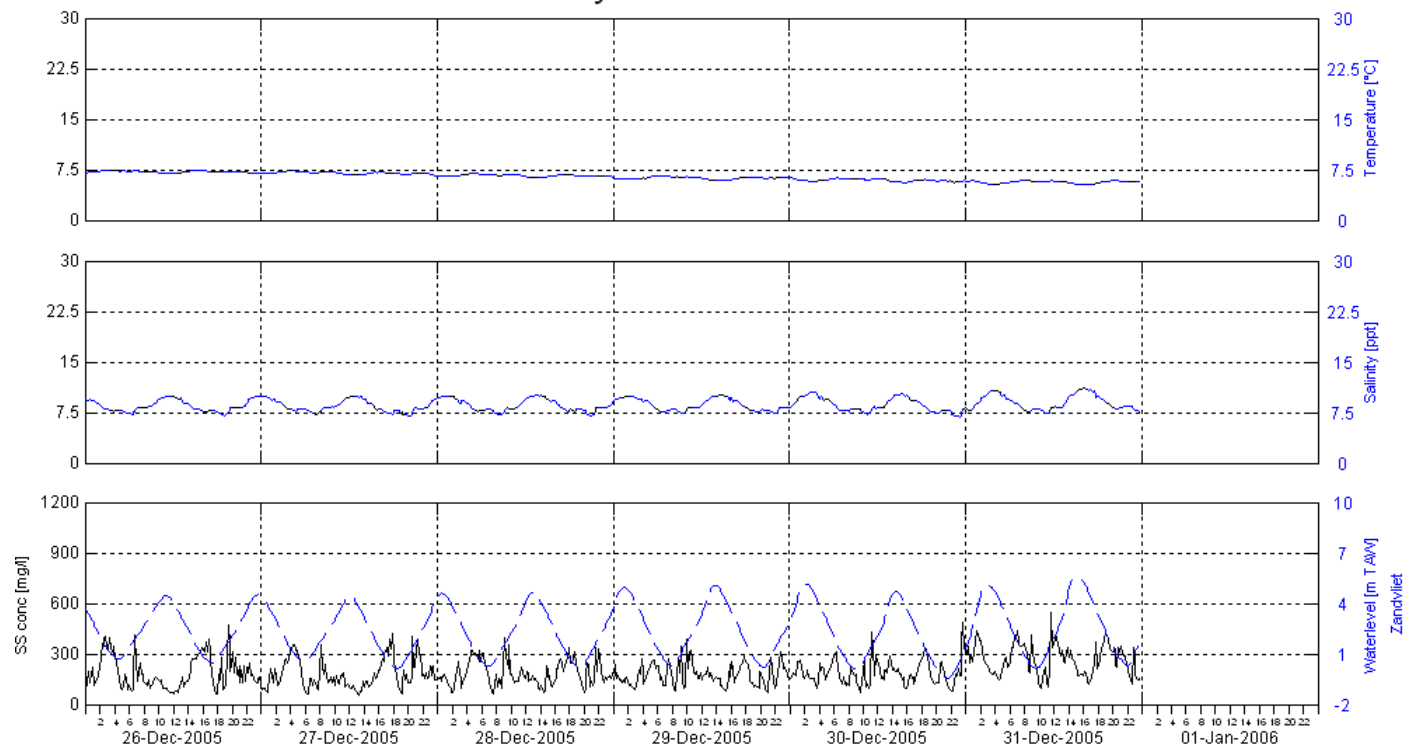
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy84 Week 53 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 84 – 1.3m above bottom (-7.6m TAW)

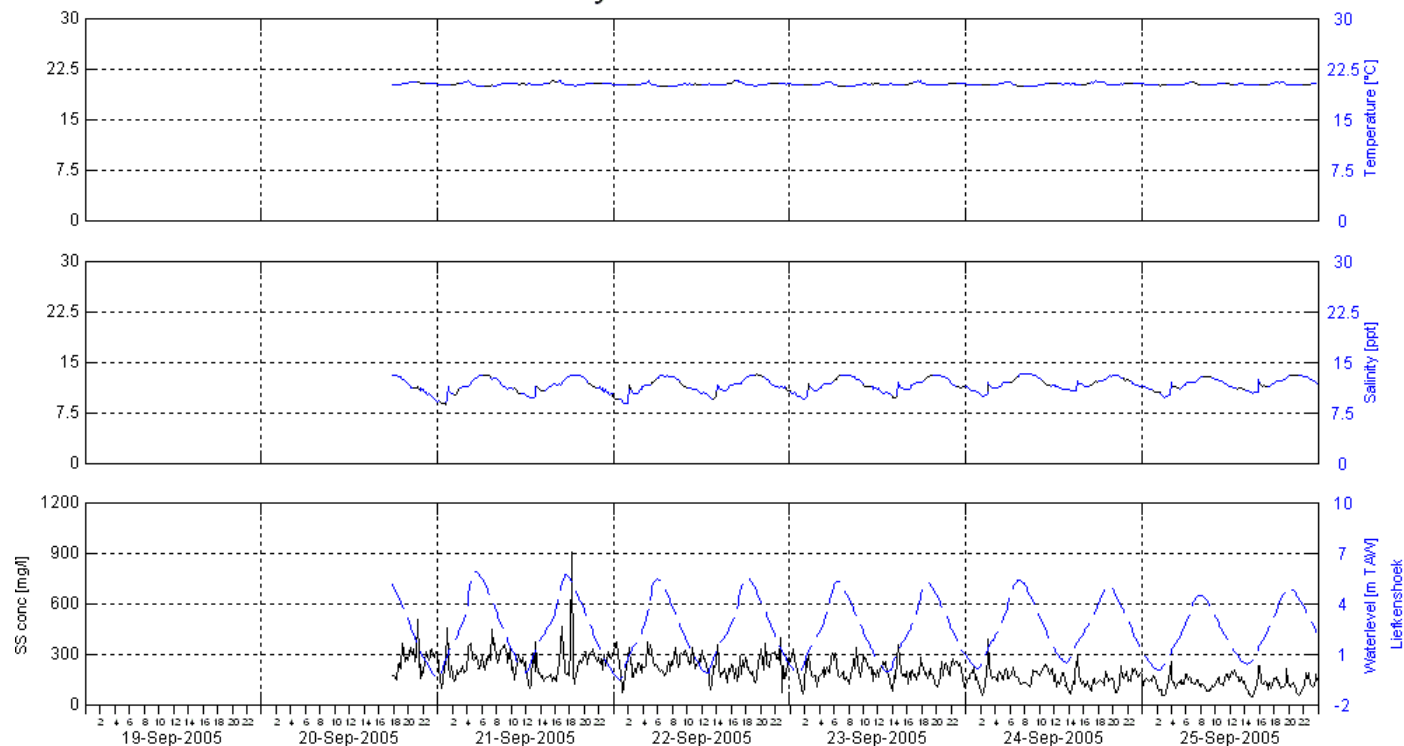
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy97 Week 39 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 1.3m above bottom (-7.3m TAW)

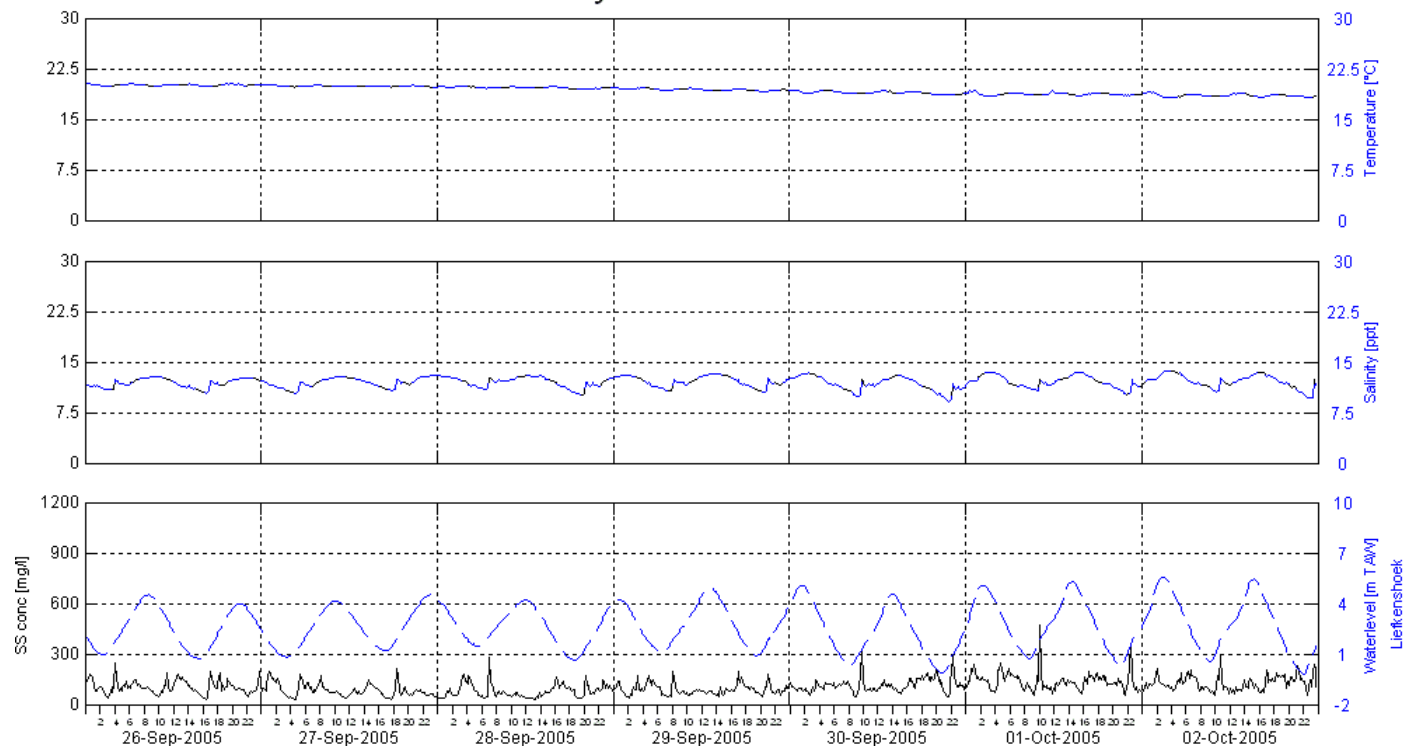
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy97 Week 40 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 1.3m above bottom (-7.3m TAW)

In association with:

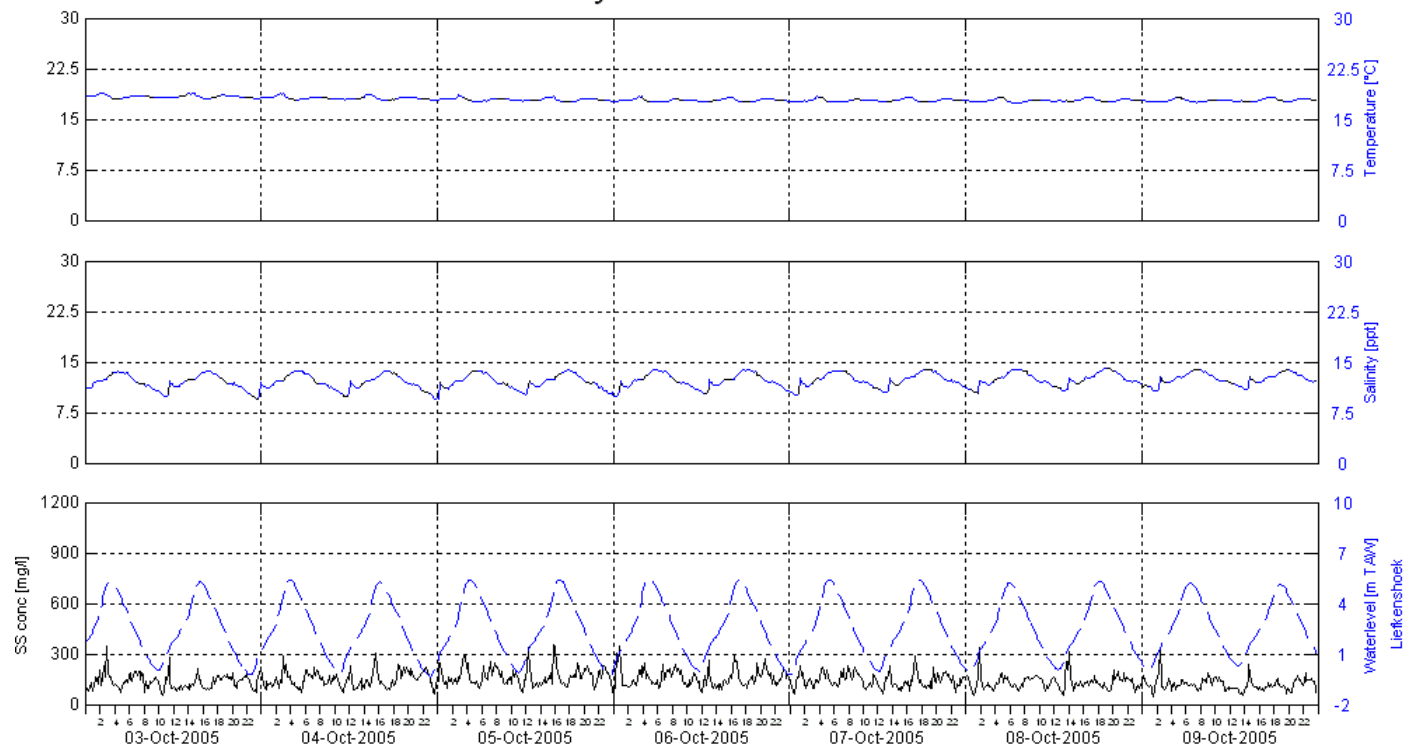


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy97 Week 41 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 1.3m above bottom (-7.3m TAW)

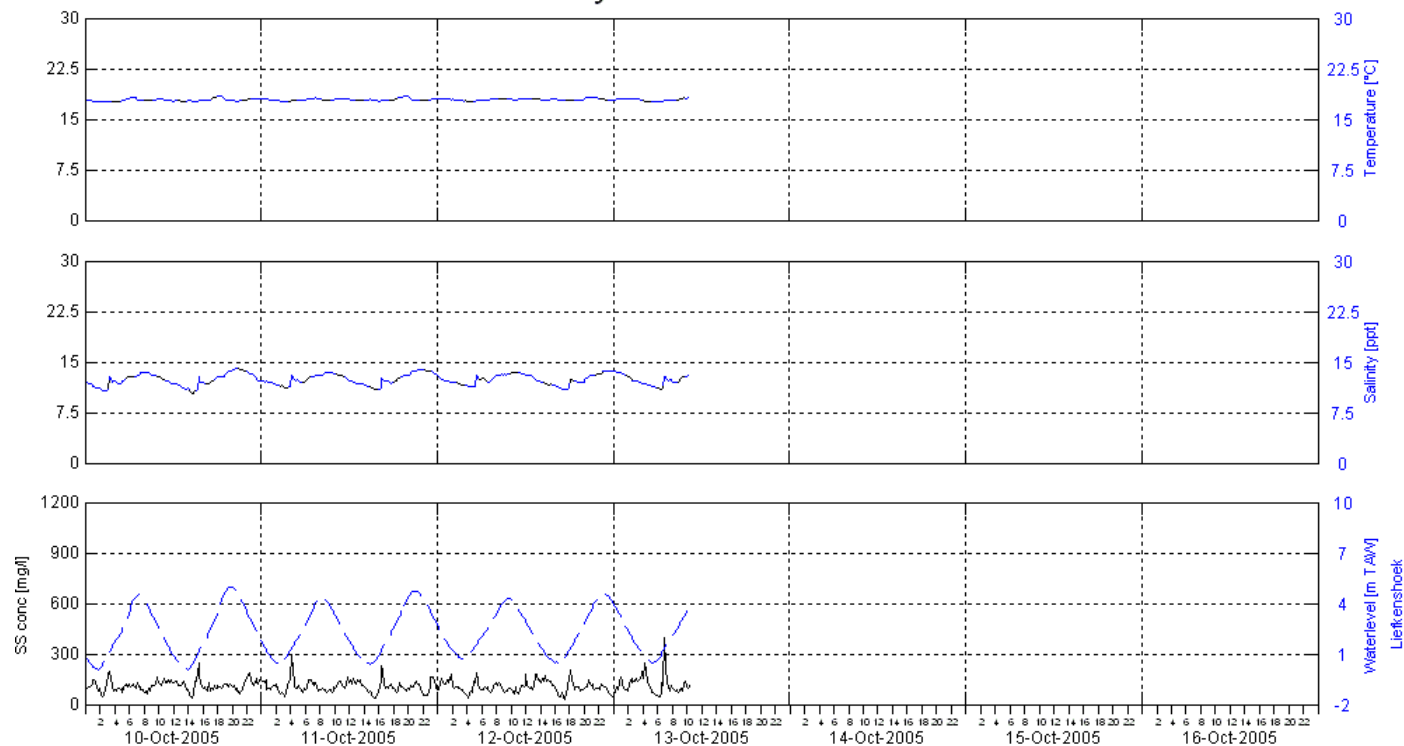
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy97 Week 42 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 1.3m above bottom (-7.3m TAW)

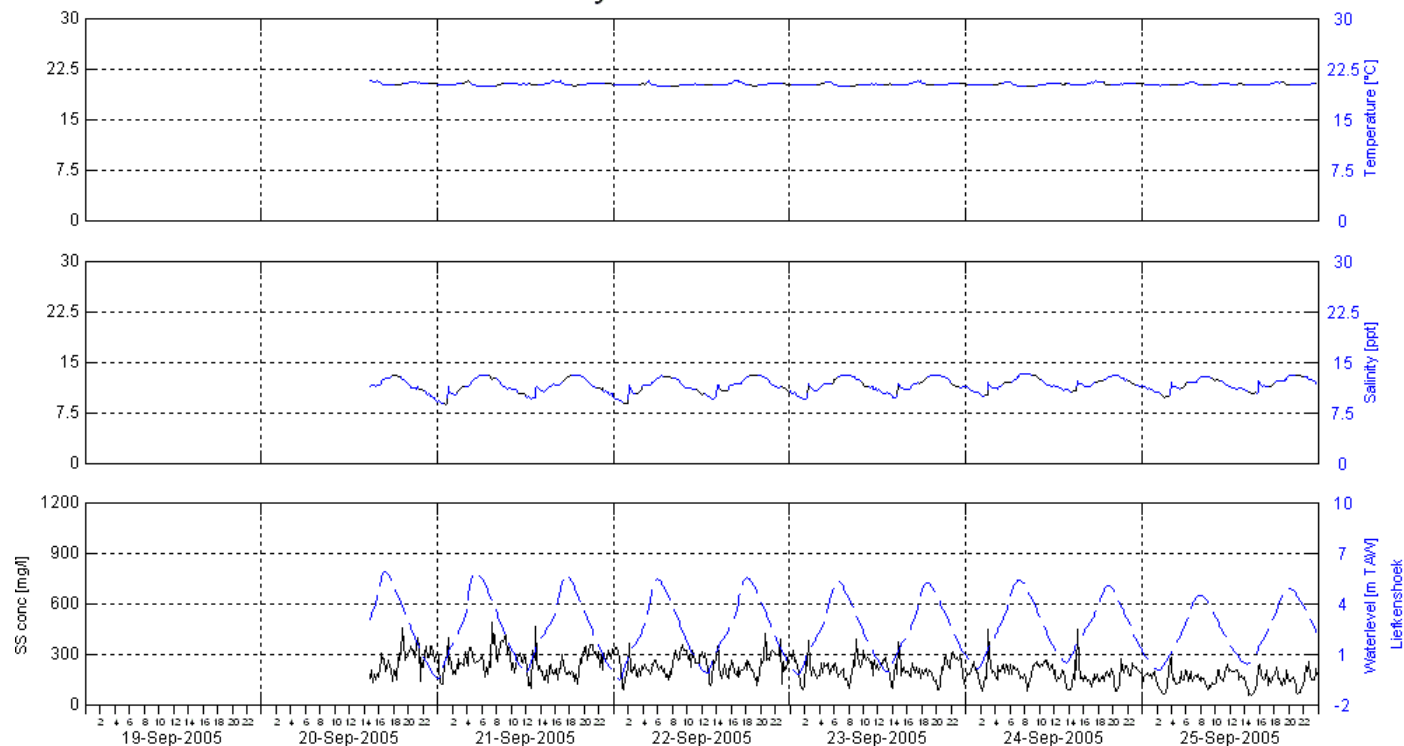
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy97 Week 39 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 1.1m above bottom (-7.5m TAW)

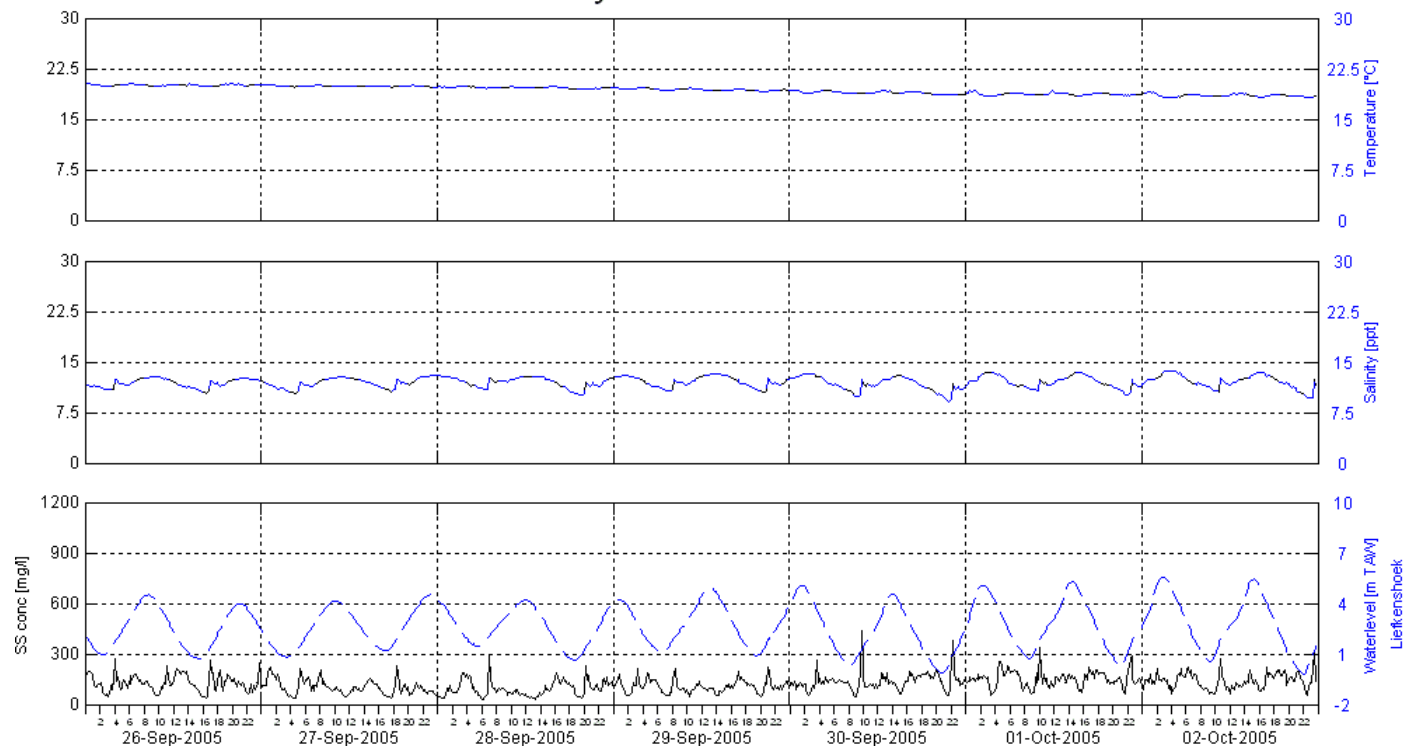
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy97 Week 40 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 1.1m above bottom (-7.5m TAW)

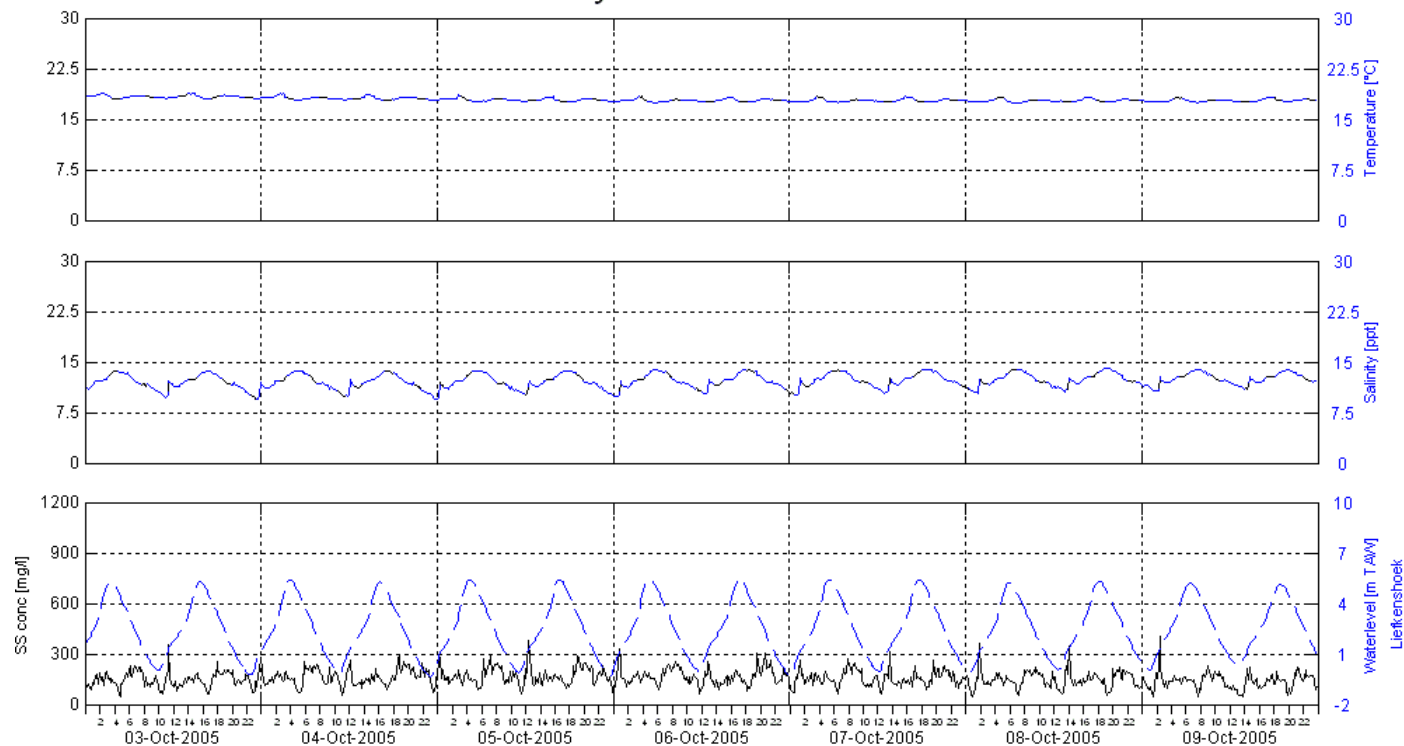
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy97 Week 41 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 1.1m above bottom (-7.5m TAW)

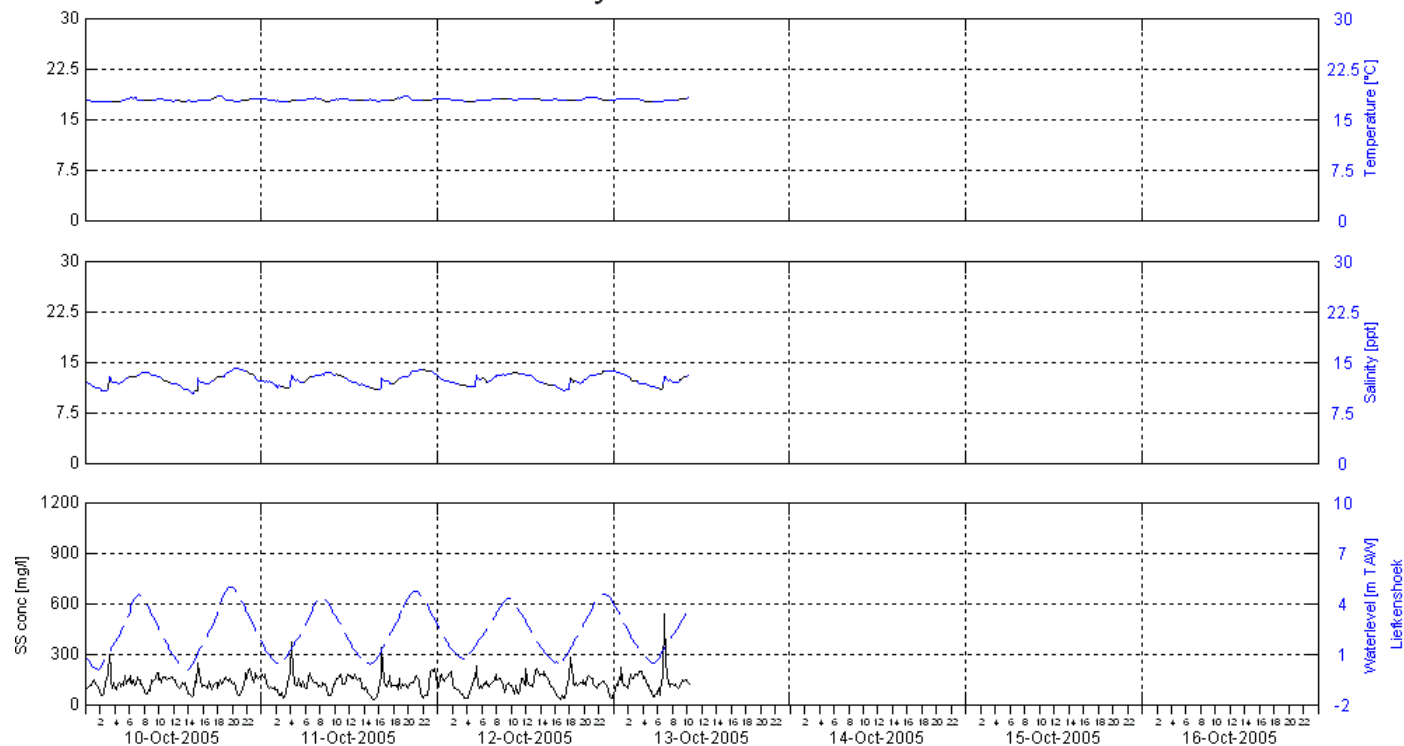
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Buoy97 Week 42 - 2005



Week series Temperature, Salinity, SS Concentration and Tide

Data processed by:



Location:

Buoy 97 – 1.1m above bottom (-7.5m TAW)

In association with:



I/RA/11265/05.019/MSA

### **B.3 Monthly results minimum, maximum and average of velocity magnitude, temperature, salinity and suspended sediment concentration**

Location: Buoy 84  
3.3 meter above bottom [-5.6 m TAW]

Velocity magnitude [m/s]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	0*		1.5*		0.50*	
November 2005	0.01*		1.32*		0.52*	
December 2005	-		-		-	
Temperature [°C]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	15.6*		18.3*		15.5*	
November 2005	13.5*		16.4*		15.0*	
December 2005	-		-		-	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
September2005	-	-	-	-	-	-
October 2005	14.3*	11.8*	16.2*	13.5*	15.3*	12.8*
November 2005	14.6*	12.1*	15.7*	13.1*	15.2*	12.6*
December 2005	-	-	-	-	-	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	33*		408*		138*	
November 2005	20*		546*		179*	
December 2005	-		-		-	

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.



Location: Buoy 84  
0.8 meter above bottom [-8.1 m TAW]

Velocity magnitude [m/s]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	0.01*		1.21*		0.40*	
November 2005	0.01*		1.07*		0.41*	
December 2005	-		-		-	
Temperature [°C]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	15.6*		18.4*		16.5*	
November 2005	13.5*		16.4*		15.0*	
December 2005	-		-		-	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
September2005	-	-	-	-	-	-
October 2005	14.4*	12.4*	16.4*	13.8*	15.5*	12.9*
November 2005	14.8*	12.1*	15.8*	13.4*	15.4*	12.9*
December 2005	-	-	-	-	-	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	52*		591*		203*	
November 2005	75*		767*		234*	
December 2005	-		-		-	

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Buoy 97  
3.3 meter above bottom [-5.3 m TAW]

Velocity magnitude [m/s]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	0*		1.54*		0.53*	
November 2005	0.01		1.32		0.52	
December 2005	0		1.39		0.53	
Temperature [°C]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	15.5*		18.6*		16.6*	
November 2005	7.6		16.7		13.0	
December 2005	5.4		9.0		7.3	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
September2005	-	-	-	-	-	-
October 2005	13.4*	9.0*	15.3*	12.3*	14.4*	10.8*
November 2005	10.4	4.1	14.9	11.8	13.8	9.8
December 2005	8.6	4.4	11.5	9.1	10.0	6.1
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	33*		441*		118*	
November 2005	14		439		148	
December 2005	38		493		161	

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Buoy 97  
0.8 meter above bottom [-7.8 m TAW]

Velocity magnitude [m/s]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	0.01*		1.32*		0.40*	
November 2005	0.01		1.09		0.39	
December 2005	0.01		1.11		0.38	
Temperature [°C]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	15.6*		18.6*		16.6*	
November 2005	7.7		16.8		13.0	
December 2005	5.4		9.0		7.3	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
September2005	-	-	-	-	-	-
October 2005	13.4*	10.1*	15.2*	12.8*	14.4*	11.4*
November 2005	10.4	4.3	14.9	12.4	13.8	10.6
December 2005	8.6	4.6	11.4	9.3	9.9	6.7
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	46*		805*		229*	
November 2005	44		1029		226	
December 2005	64		808		282	

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

# Tilted Frames

Location: Buoy 84  
0.4 meter above bottom [-8.5 m TAW]

Velocity magnitude [m/s]						
Month	Minimum		Maximum		Average	
September2005	0*		0.49*		0.15*	
October 2005	0*		0.48*		0.17*	
November 2005	-		-		-	
December 2005	-		-		-	
Temperature [°C]						
Month	Minimum		Maximum		Average	
September2005	18.4*		20.8*		19.7*	
October 2005	17.2*		18.9*		17.9*	
November 2005	-		-		-	
December 2005	-		-		-	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
September2005	13.0*	11.1*	14.4*	12.7*	13.9*	11.8*
October 2005	13.3*	11.7*	14.9*	13.0*	14.4*	12.2*
November 2005	-	-	-	-	-	-
December 2005	-	-	-	-	-	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
September2005	3*		726*		207*	
October 2005	6*		562*		206*	
November 2005	-		-		-	
December 2005	-		-		-	

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Buoy 84  
1.0 meter above bottom [-7.8 m TAW]

Velocity magnitude [m/s]						
Month	Minimum		Maximum		Average	
September2005	0*		0.76*		0.22*	
October 2005	0*		0.68*		0.24*	
November 2005	-		-		-	
December 2005	-		-		-	
Temperature [°C]						
Month	Minimum		Maximum		Average	
September2005	18.4*		20.6*		19.7*	
October 2005	17.2*		18.4*		17.9*	
November 2005	-		-		-	
December 2005	-		-		-	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
September2005	13.4*	11.2*	14.4*	12.8*	13.9*	11.9*
October 2005	14.3*	11.8*	15.0*	12.9*	14.6*	12.2*
November 2005	-	-	-	-	-	-
December 2005	-	-	-	-	-	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
September2005	43*		495*		168*	
October 2005	47*		477*		156*	
November 2005	-		-		-	
December 2005	-		-		-	

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Buoy 84  
0.7 meter above bottom [-8.2 m TAW]

Velocity magnitude [m/s]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	-		-		-	
November 2005	0*		1.11*		0.08*	
December 2005	0		0.32		0.07	
Temperature [°C]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	-		-		-	
November 2005	8.4*		14.0*		11.1*	
December 2005	5.3		8.7		7.3	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
September2005	-	-	-	-	-	-
October 2005	-	-	-	-	-	-
November 2005	11.0*	8.5*	15.3*	14.4*	13.8*	12.1*
December 2005	8.4	6.3	12.0	10.5	10.4	8.5
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	-		-		-	
November 2005	57*		999*		258*	
December 2005	10		1128		303	

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Buoy 84  
1.3 meter above bottom [-7.6 m TAW]

Velocity magnitude [m/s]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	-		-		-	
November 2005	0.01*		0.86*		0.12*	
December 2005	0		0.24		0.11	
Temperature [°C]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	-		-		-	
November 2005	8.4*		13.9*		11.2*	
December 2005	7.7		14.4		10.8	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
September2005	-	-	-	-	-	-
October 2005	-	-	-	-	-	-
November 2005	10.3*	8.3*	15.3*	14.3*	13.6*	12.3*
December 2005	8.2	7.1	12.2	10.7	10.3	8.7
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
September2005	-		-		-	
October 2005	-		-		-	
November 2005	61*		654*		225*	
December 2005	55		973		254	

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Buoy 97  
1.3 meter above bottom [-7.3 m TAW]

Velocity magnitude [m/s]						
Month	Minimum		Maximum		Average	
September2005	0*		0.53*		0.08*	
October 2005	0*		0.37*		0.07*	
November 2005	-		-		-	
December 2005	-		-		-	
Temperature [°C]						
Month	Minimum		Maximum		Average	
September2005	18.6*		20.8*		19.9*	
October 2005	17.5*		19.3*		18.0*	
November 2005	-		-		-	
December 2005	-		-		-	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
September2005	11.7*	9.0*	13.1*	12.5*	12.6*	11.1*
October 2005	12.2*	9.9*	13.8*	13.0*	13.2*	11.6*
November 2005	-	-	-	-	-	-
December 2005	-	-	-	-	-	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
September2005	29*		906*		146*	
October 2005	33*		467*		131*	
November 2005	-		-		-	
December 2005	-		-		-	

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.



Location: Buoy 97  
1.1 meter above bottom [-7.5 m TAW]

Velocity magnitude [m/s]						
Month	Minimum		Maximum		Average	
September2005	0*		0.50*		0.09*	
October 2005	0*		0.42*		0.09*	
November 2005	-		-		-	
December 2005	-		-		-	
Temperature [°C]						
Month	Minimum		Maximum		Average	
September2005	18.6*		20.8*		19.9*	
October 2005	17.5*		12.3*		18.0*	
November 2005	-		-		-	
December 2005	-		-		-	
Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
September2005	11.5*	9.4*	13.2*	12.5*	12.6*	11.1*
October 2005	12.3*	9.9*	13.9*	12.7*	13.2*	11.4*
November 2005	-	-	-	-	-	-
December 2005	-	-	-	-	-	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
September2005	31*		486*		164*	
October 2005	29*		535*		145*	
November 2005	-		-		-	
December 2005	-		-		-	

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

## **B.4 Total result from September 2005 till December 2005 of velocity magnitude, temperature, salinity and suspended sediment concentration**

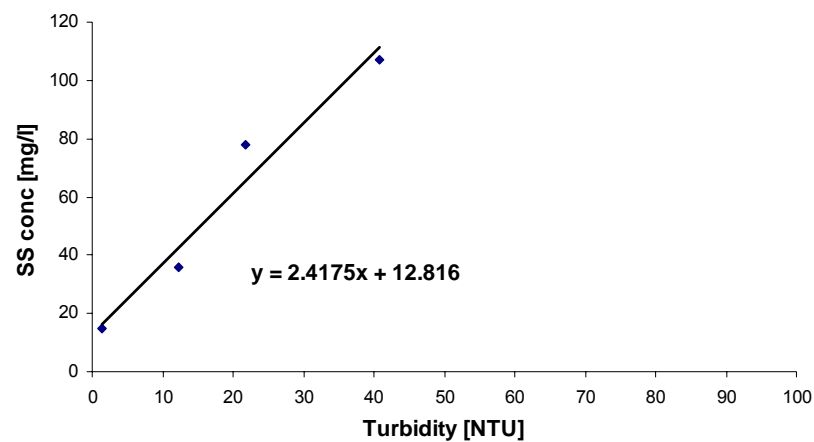
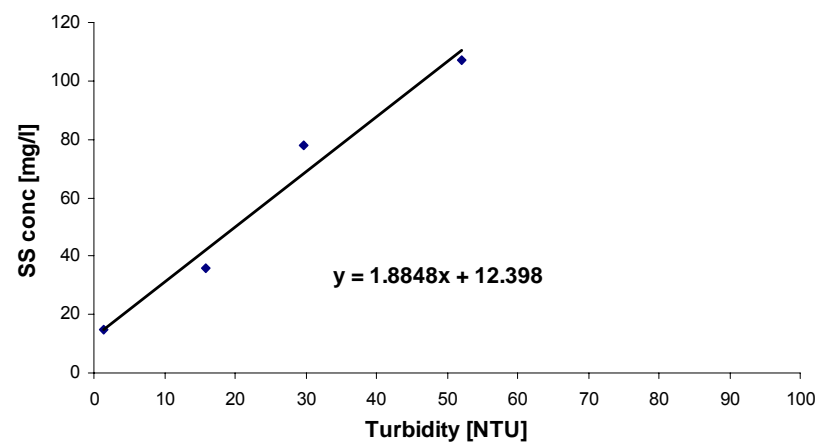
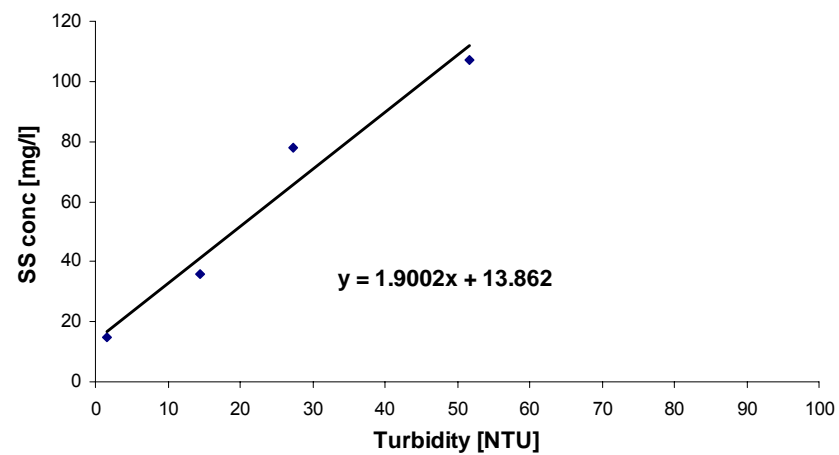
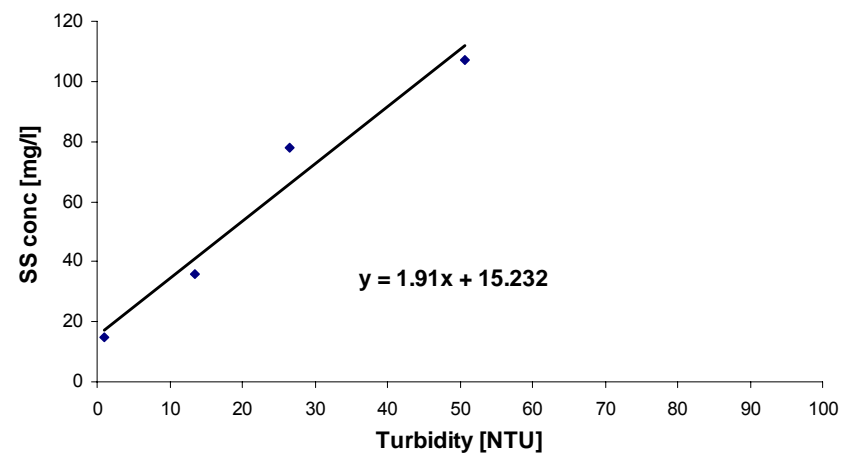
**Averages for the whole deployment period of each instrument [September 2005 – December 2005]**

Location	Depth [m TAW]	Velocity [m/s]			Temperature [°C]			SS concentration [mg/l]		
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
<b>Buoy 84</b>	-5.6	0	1.50	0.51	13.5	18.3	15.9	33	546	155
<i>Buoy 84</i>	-8.1	0.01	1.21	0.41	13.5	18.4	15.9	52	767	228
<i>Buoy 97</i>	-5.3	0	1.54	0.53	5.4	18.6	11.6	14	493	146
<i>Buoy 97</i>	-7.8	0.01	1.32	0.39	5.4	18.6	11.6	44	1029	264
<b>Salinity [ppt]</b>										
Location	Depth [m TAW]	Minimum		Maximum		Average				
		Slack HT	Slack LT	Slack HT	Slack LT	Slack HT	Slack LT			
<b>Buoy 84</b>	-5.6	14.3	11.8	16.2	13.5	15.3	12.7			
<i>Buoy 84</i>	-8.1	14.4	12.1	16.4	13.8	15.5	12.9			
<i>Buoy 97</i>	-5.3	8.6	4.1	15.3	12.3	12.5	8.6			
<i>Buoy 97</i>	-7.8	8.6	4.3	15.2	12.8	12.4	9.3			

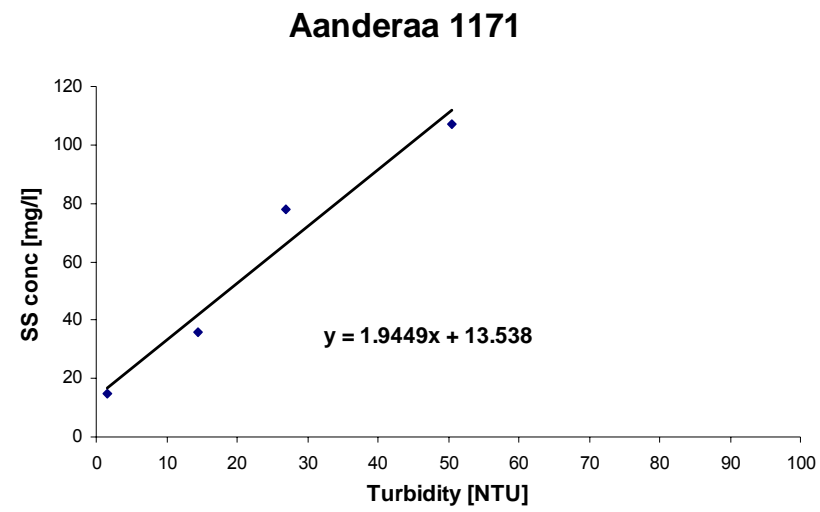
## **APPENDIX C.**

### **LONG TERM MEASUREMENTS (TV SAM 2005)**

## **C.1 Calibration curves Turbidity vs Suspended Sediment Concentration**

**Aanderaa 1166****Aanderaa 1168****Aanderaa 1169****Aanderaa 1170**

I



<b>SENSOR</b>	<b>LOCATIE EN HOOGTE BOVEN BODEM</b>	<b>PERIODE</b>
Aanderaa 1166	Boerenschans 4 m	01/07/2005 – 23/11/2005
Aanderaa 1166	Boerenschans 2 m	23/11/2005 – 31/12/2005
Aanderaa 1169	Boerenschans 2 m	01/07/2005 – 23/11/2005
Aanderaa 1169	Boerenschans 4 m	23/11/2005 – 31/12/2005
Aanderaa 1170	Hoboken 2 m	01/07/2005 – 31/12/2005
Aanderaa 1168	Oosterweel 4 m	01/07/2005 – 31/12/2005
Aanderaa 1171	Oosterweel 2 m	01/07/2005 – 31/12/2005



## **C.2 Datasheets week series**

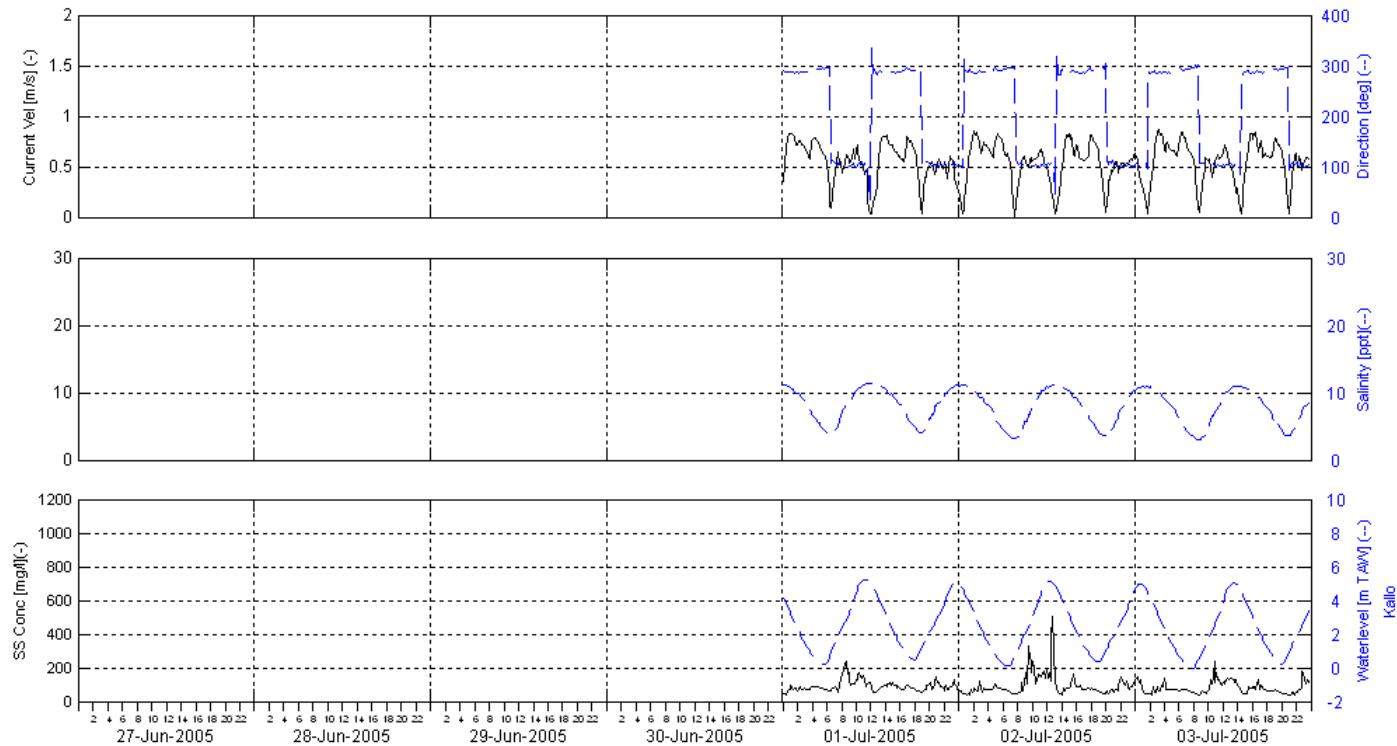
### **C.2.1. July – September**

## Datasheet order

Nr	Location	Depth of Instrument	
		[m] above bottom	[m TAW]
1	Boerenschans	4	-5.0
2	Boerenschans	2	-7.0
3	Hoboken	2	-5.0
4	Oosterweel	4	-7.0
5	Oosterweel	2	-9.0
8	Oosterweel linker oever	4.5	-2.3
9	Oosterweel linker oever	1	-5.8

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 27 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

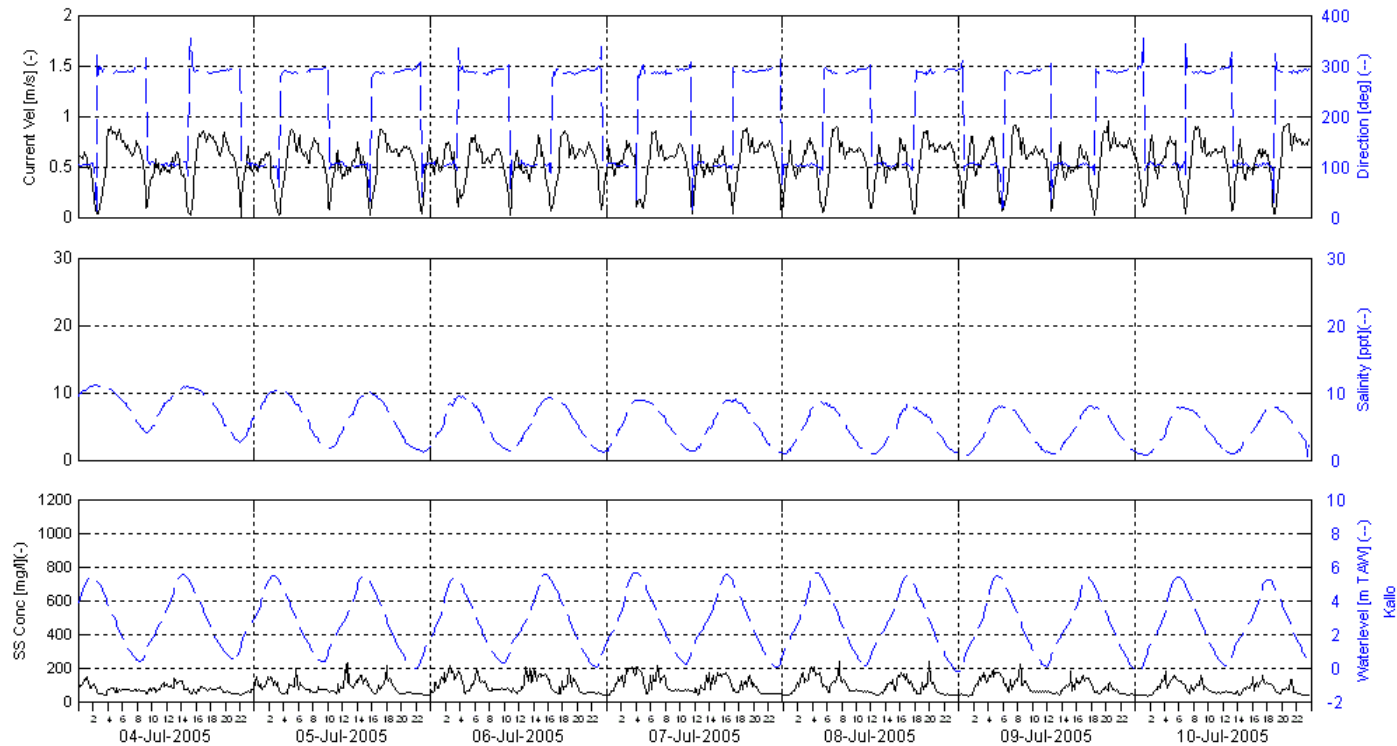


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 28 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

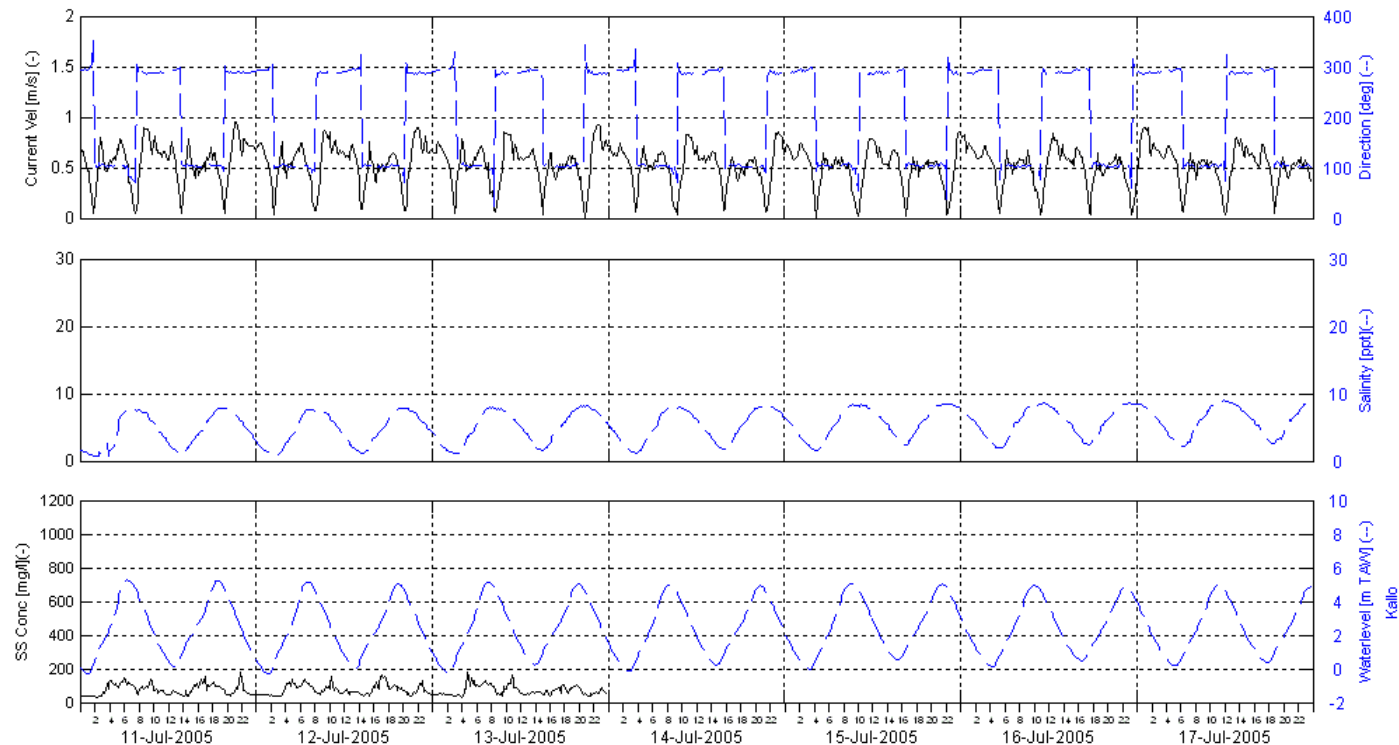


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 29 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

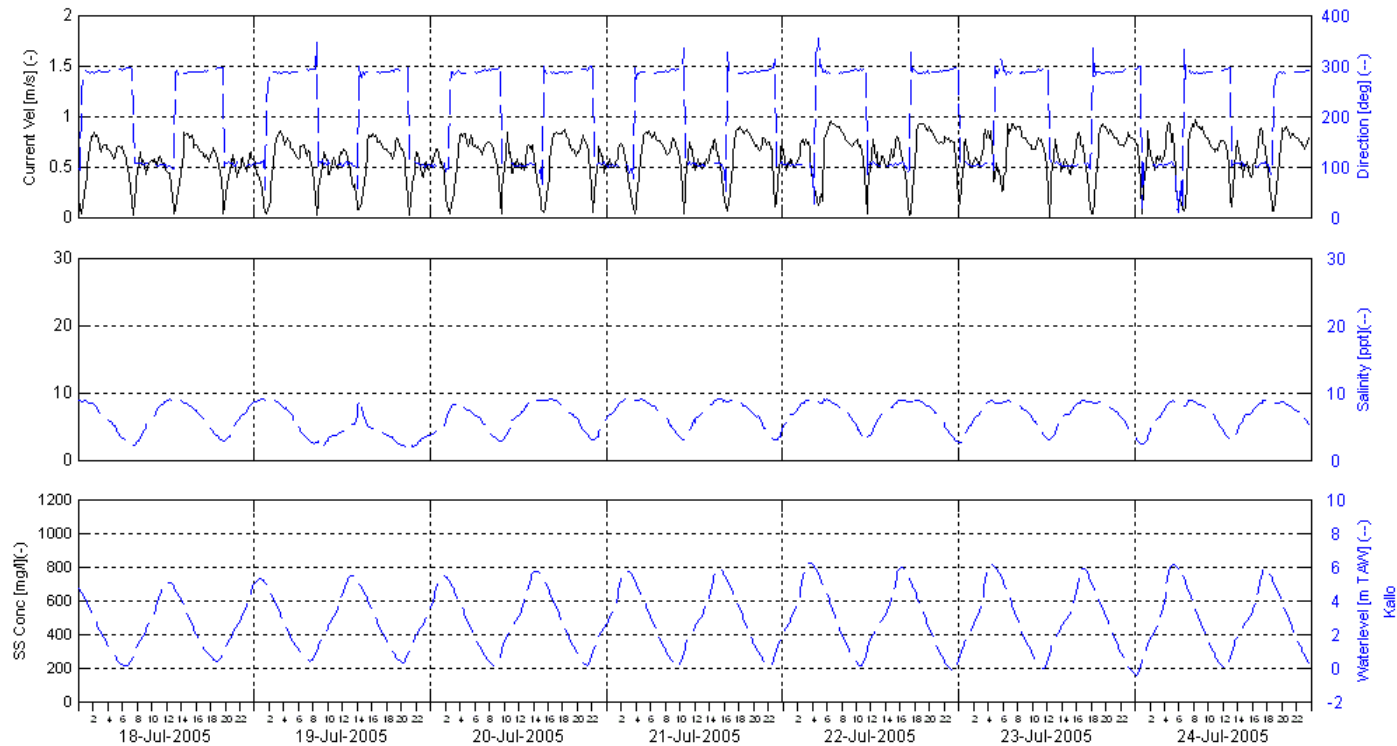


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 30 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

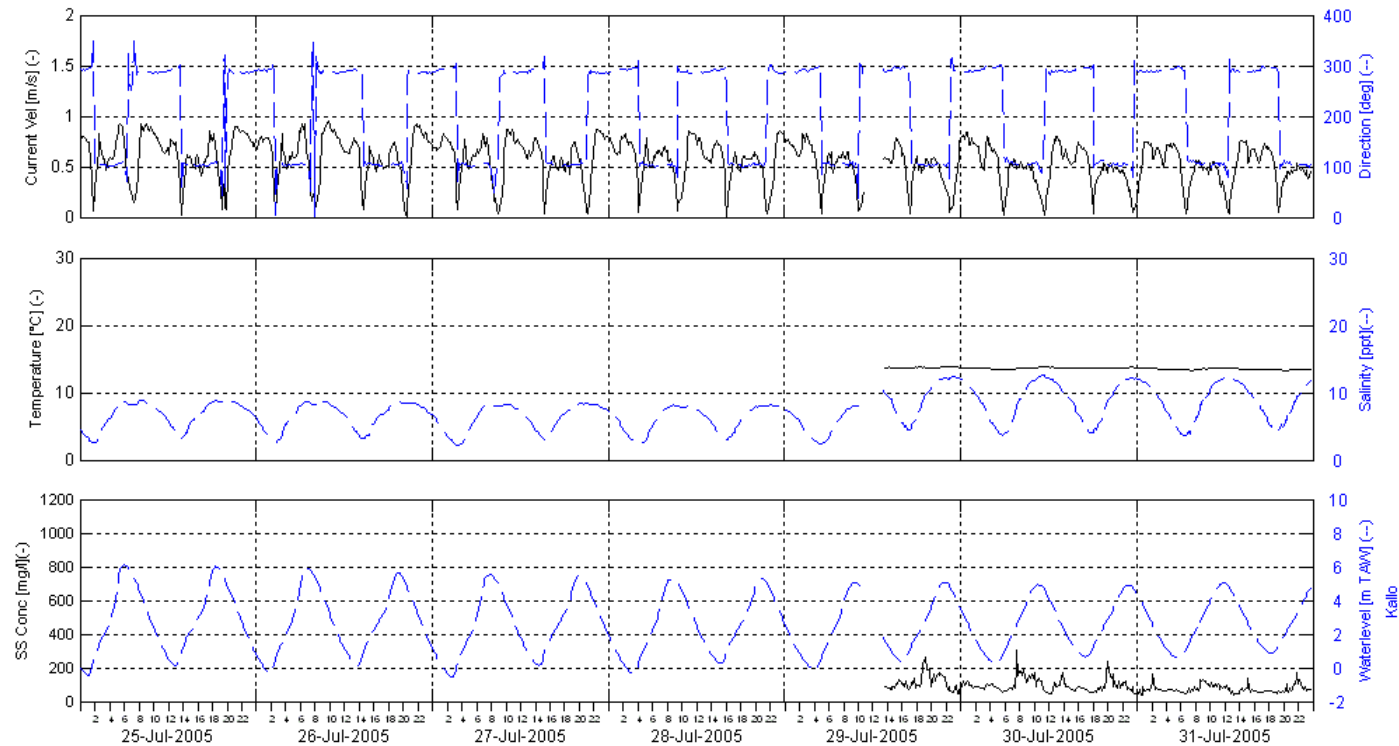


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 31 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

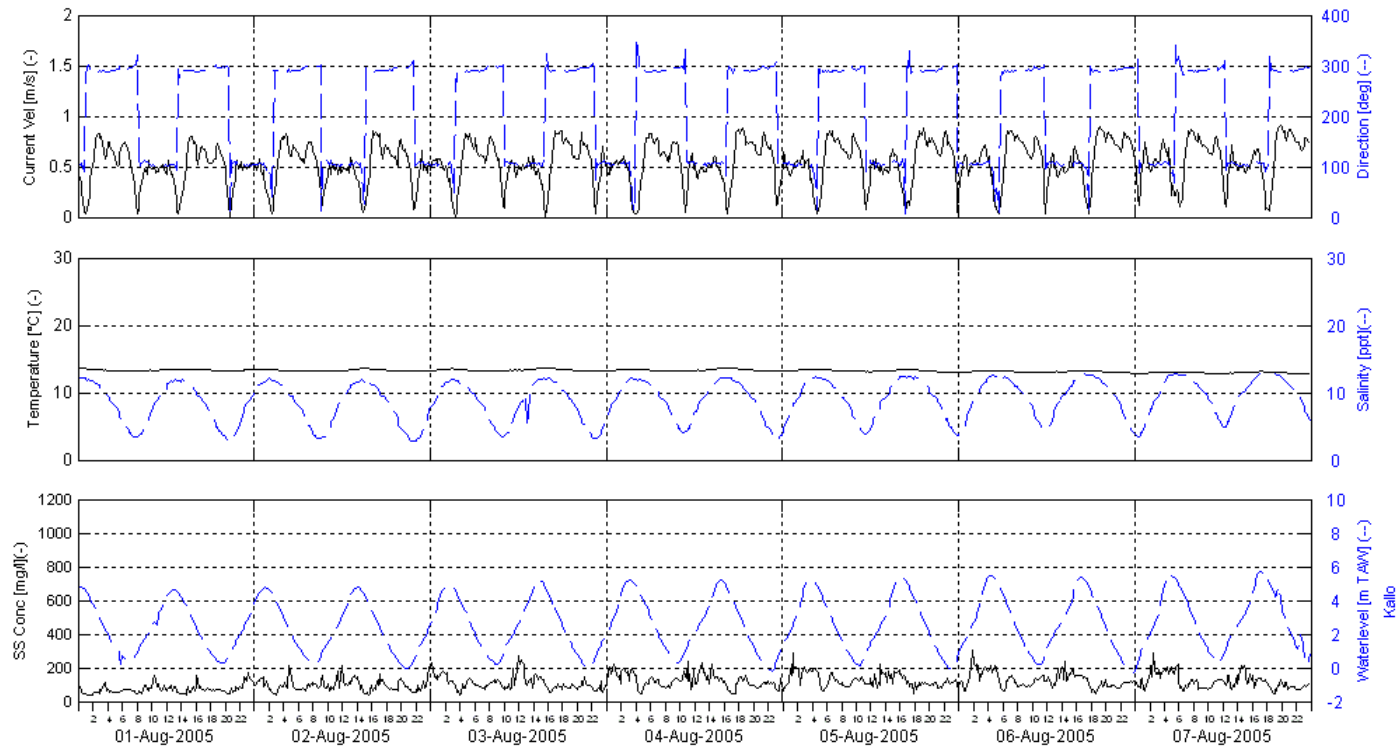


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 32 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:



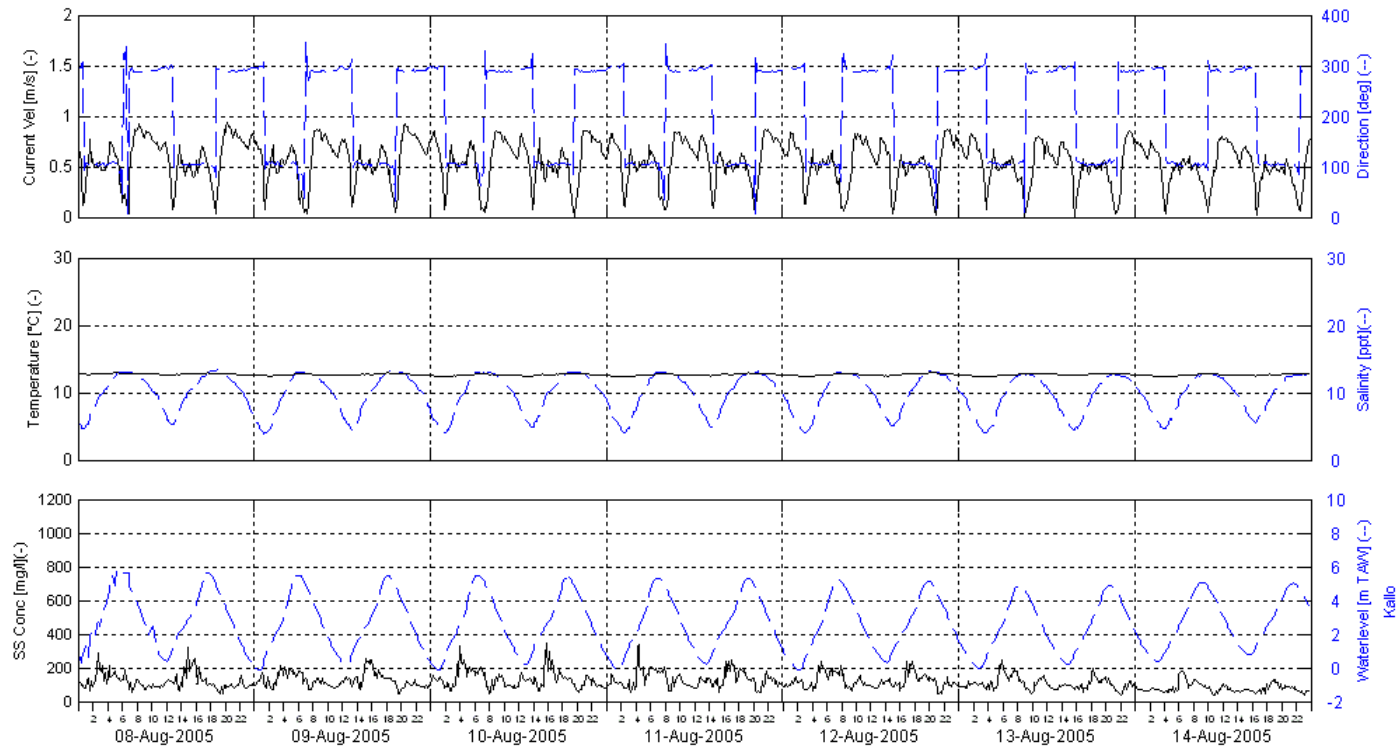
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 33 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

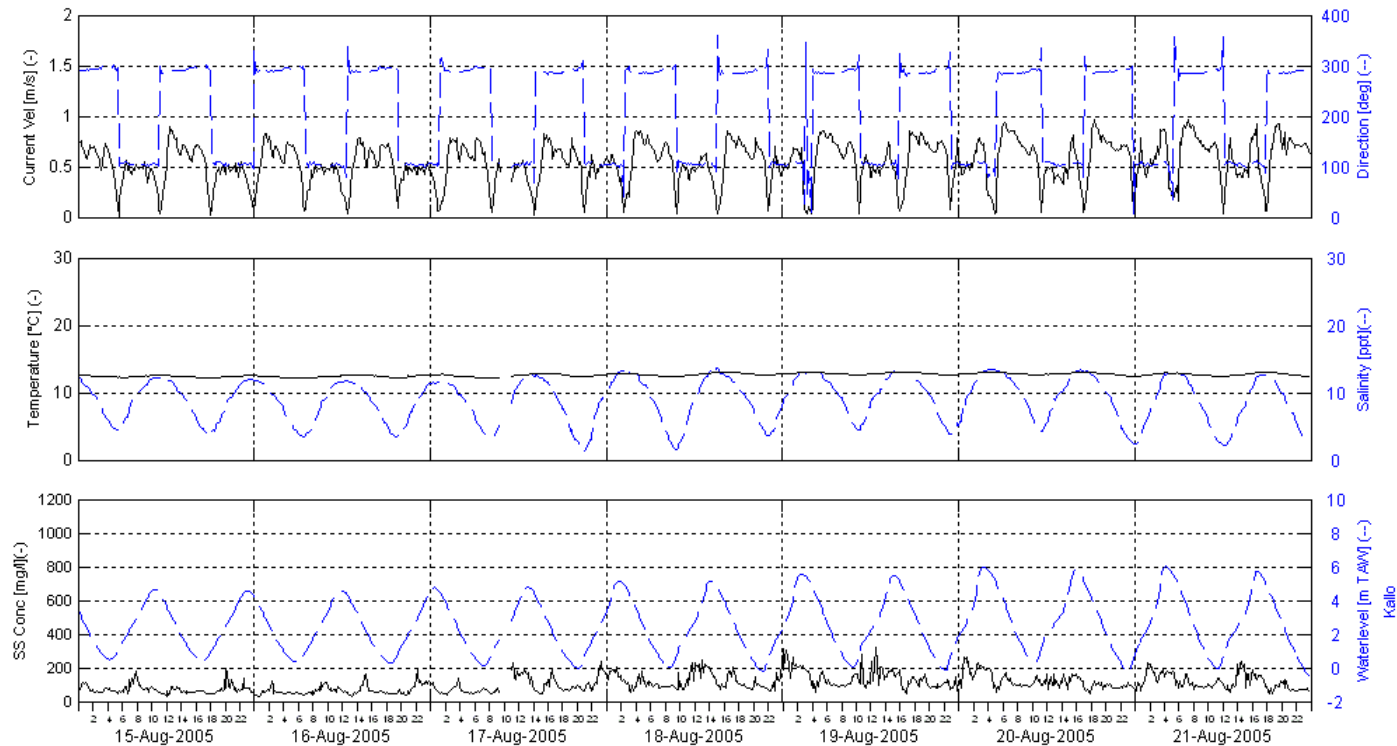


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 34 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

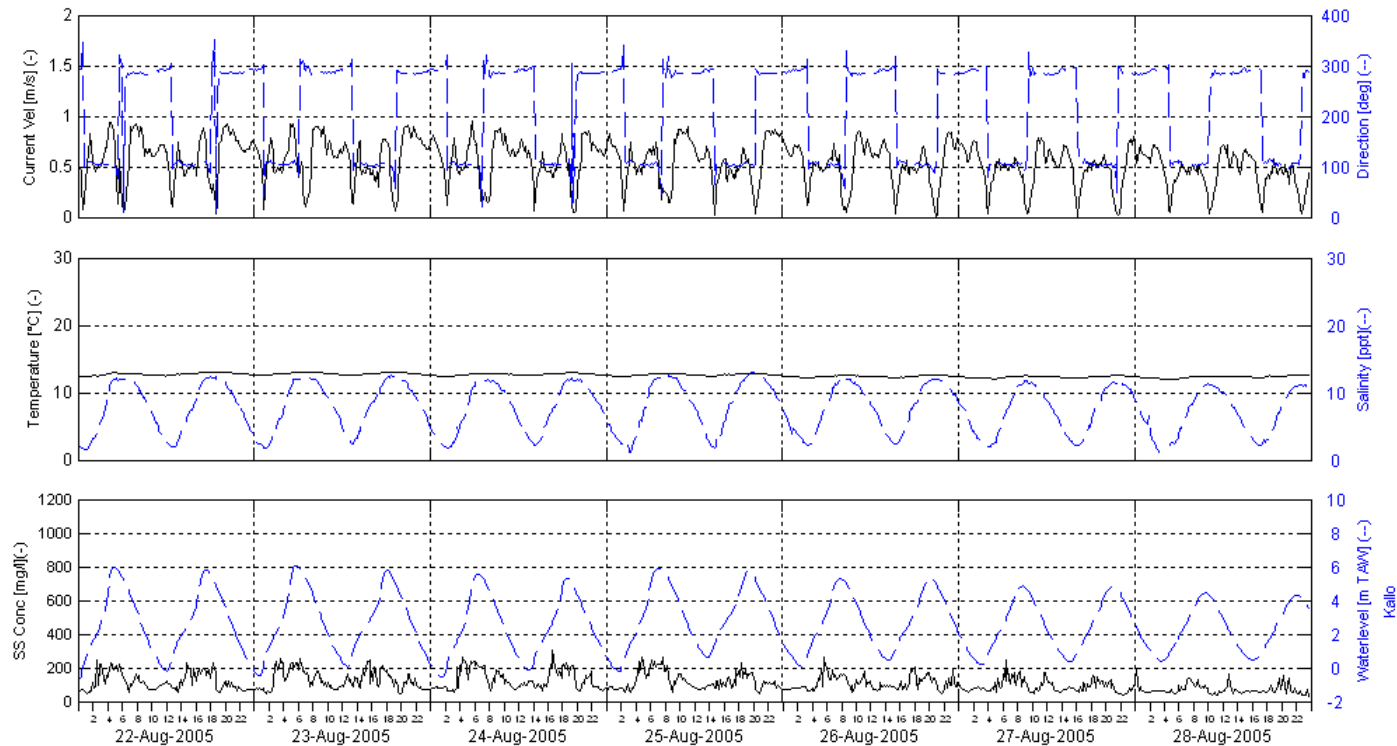


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 35 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

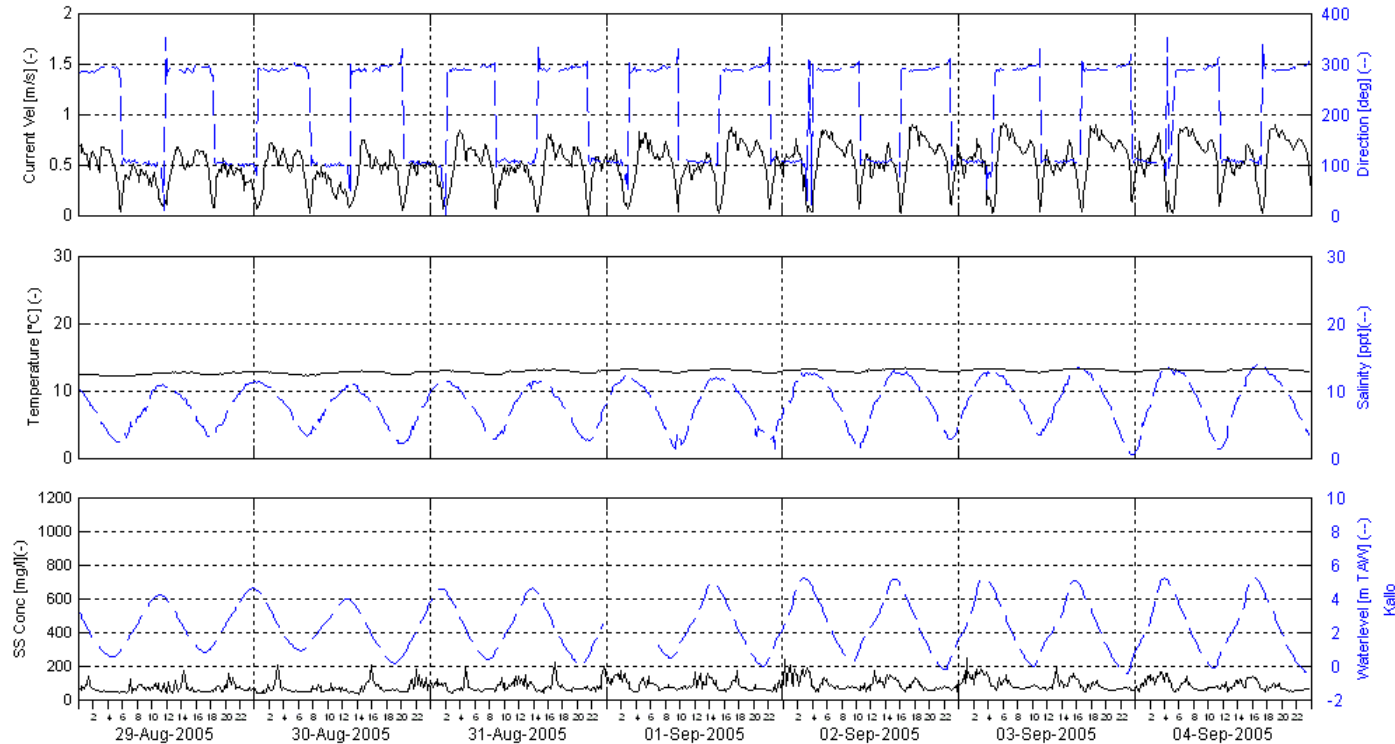


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 36 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

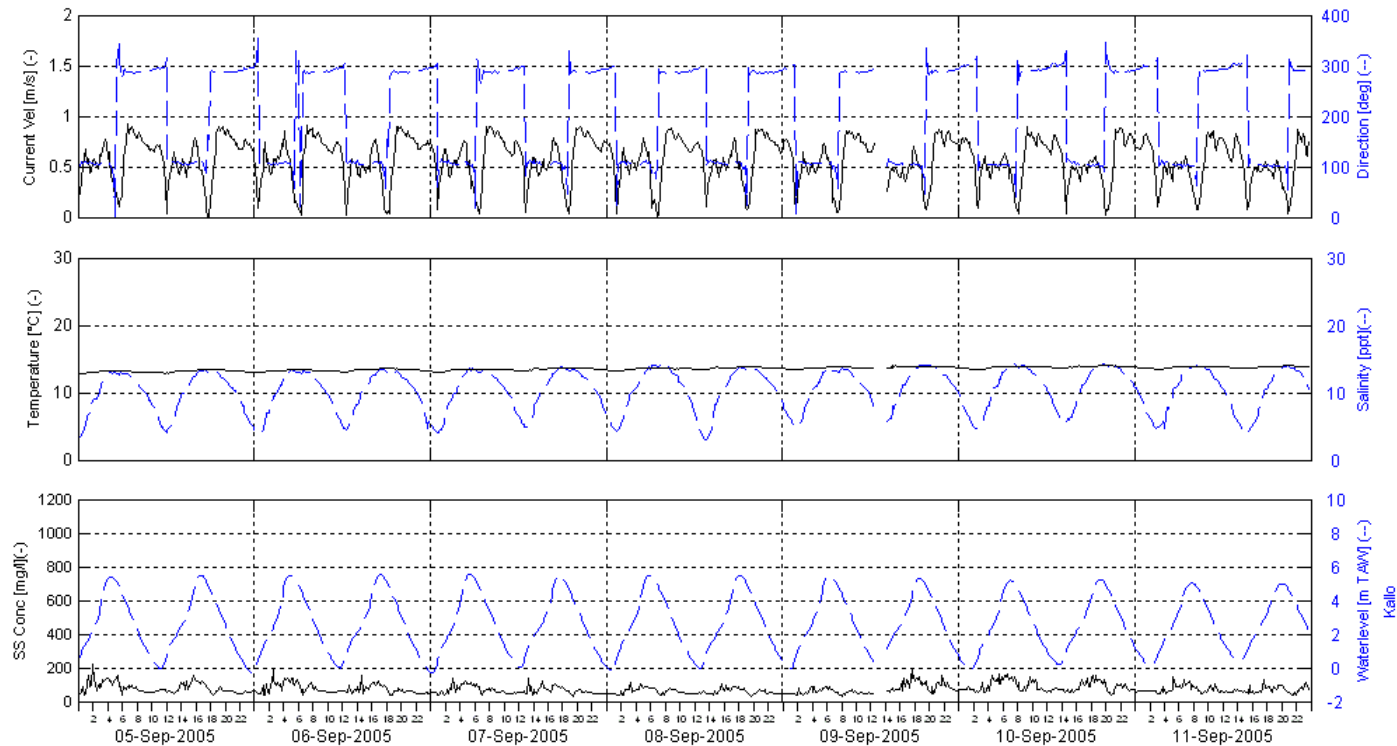


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 37 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

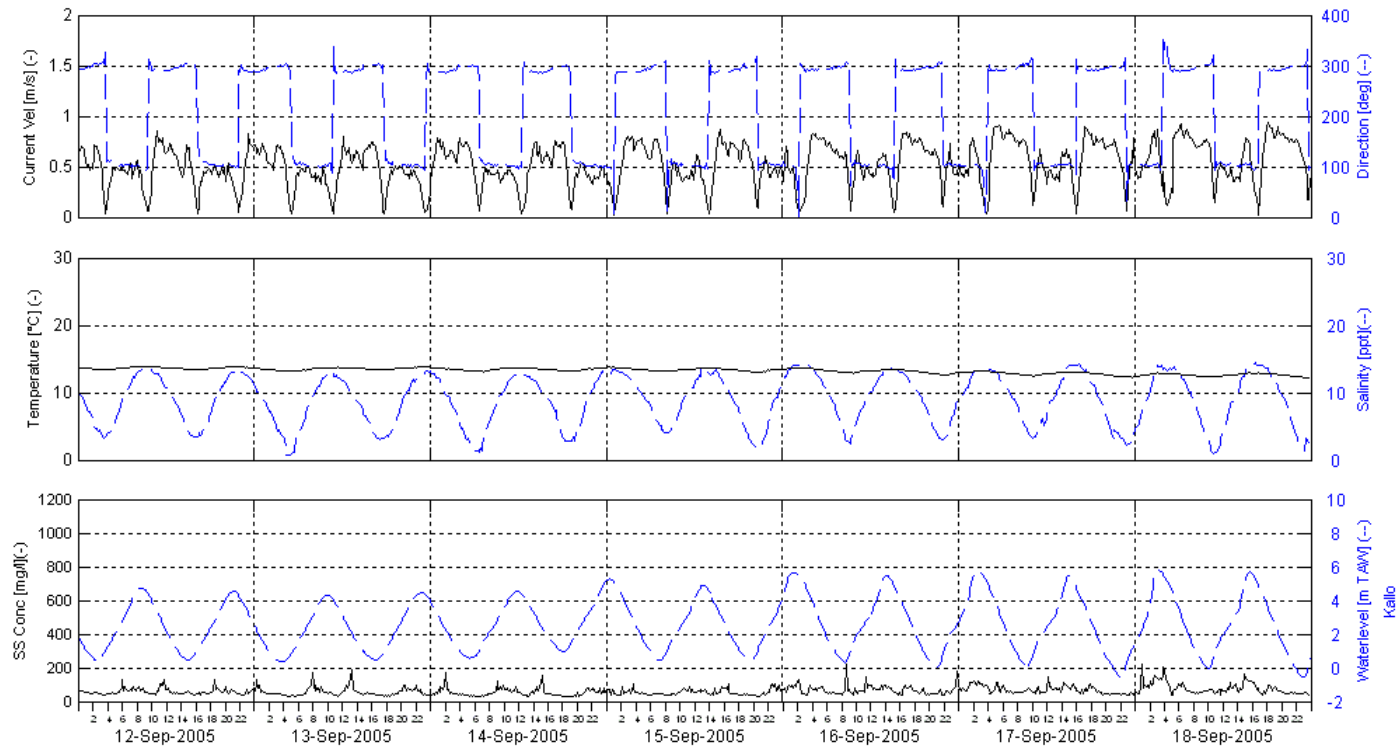


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 38 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

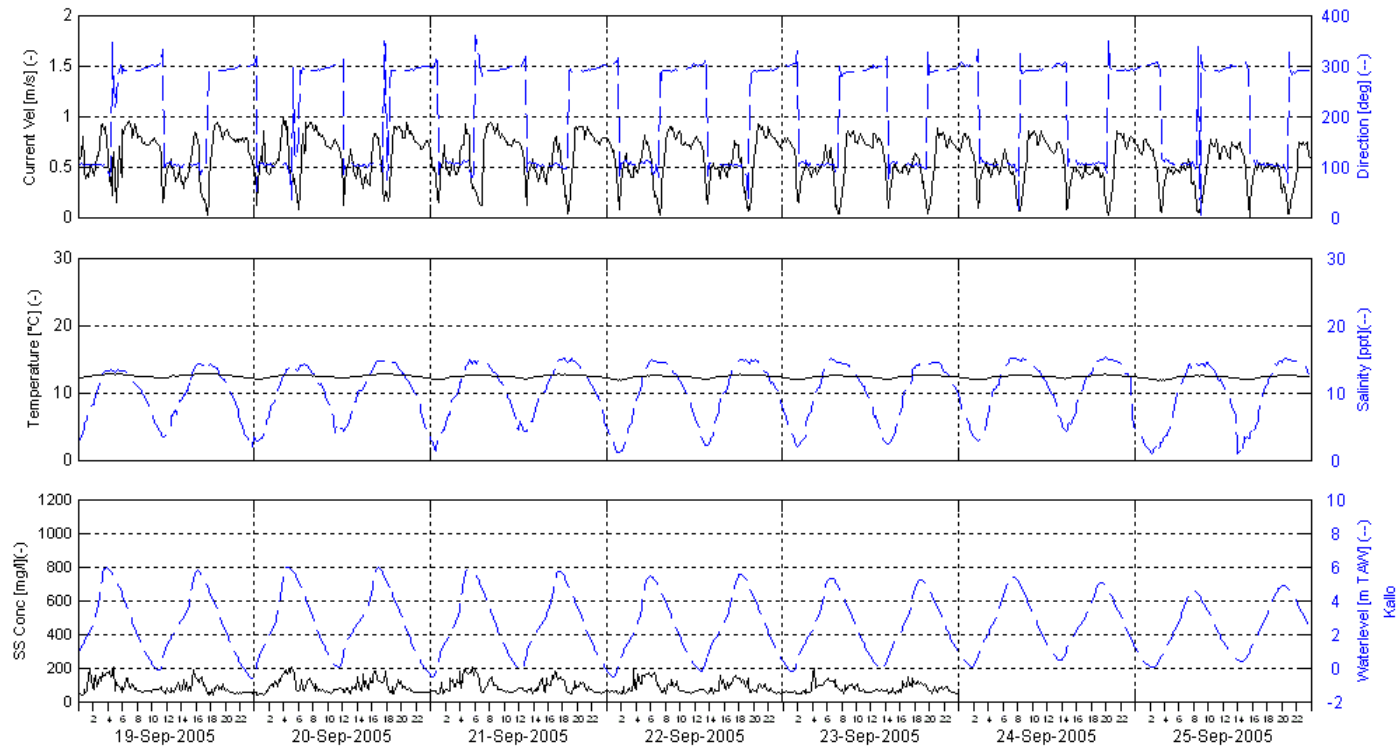


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 39 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:

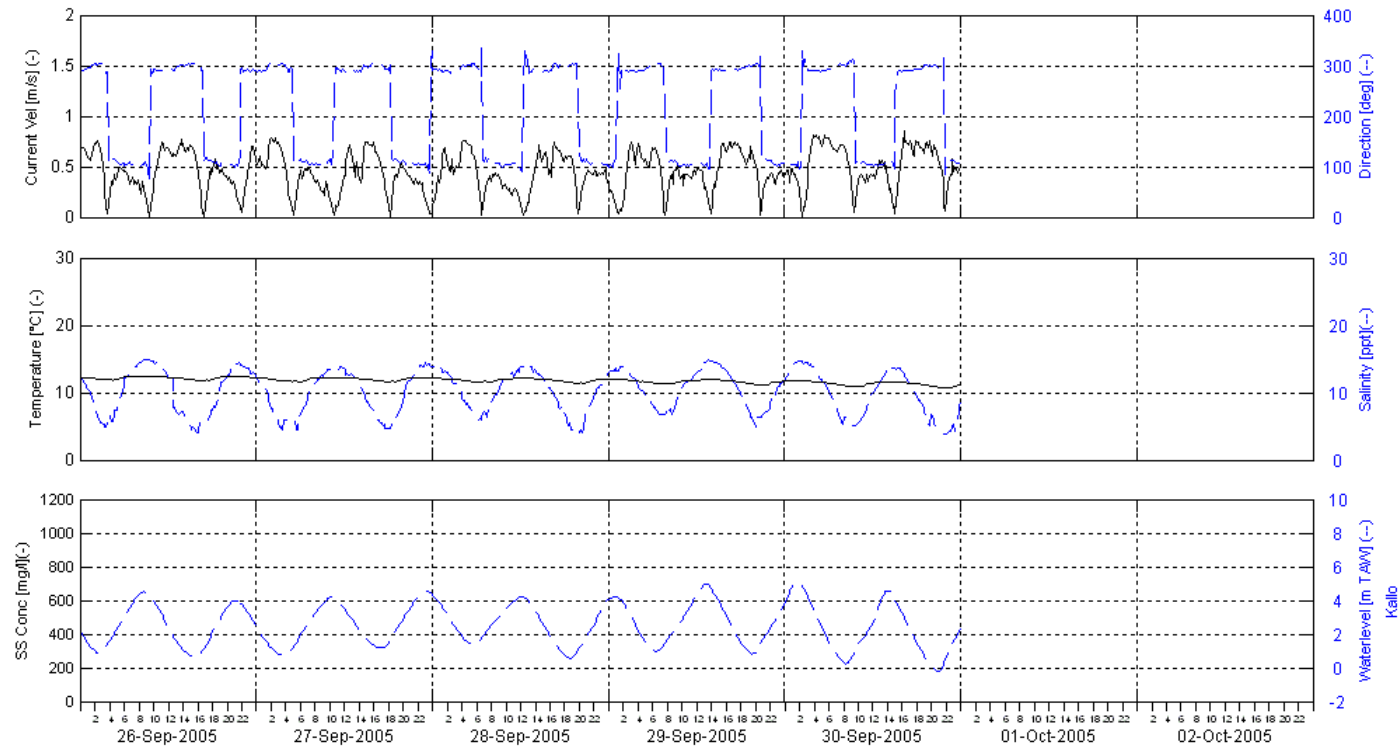


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 4m above bottom (-5m TAW)

Data processed by:



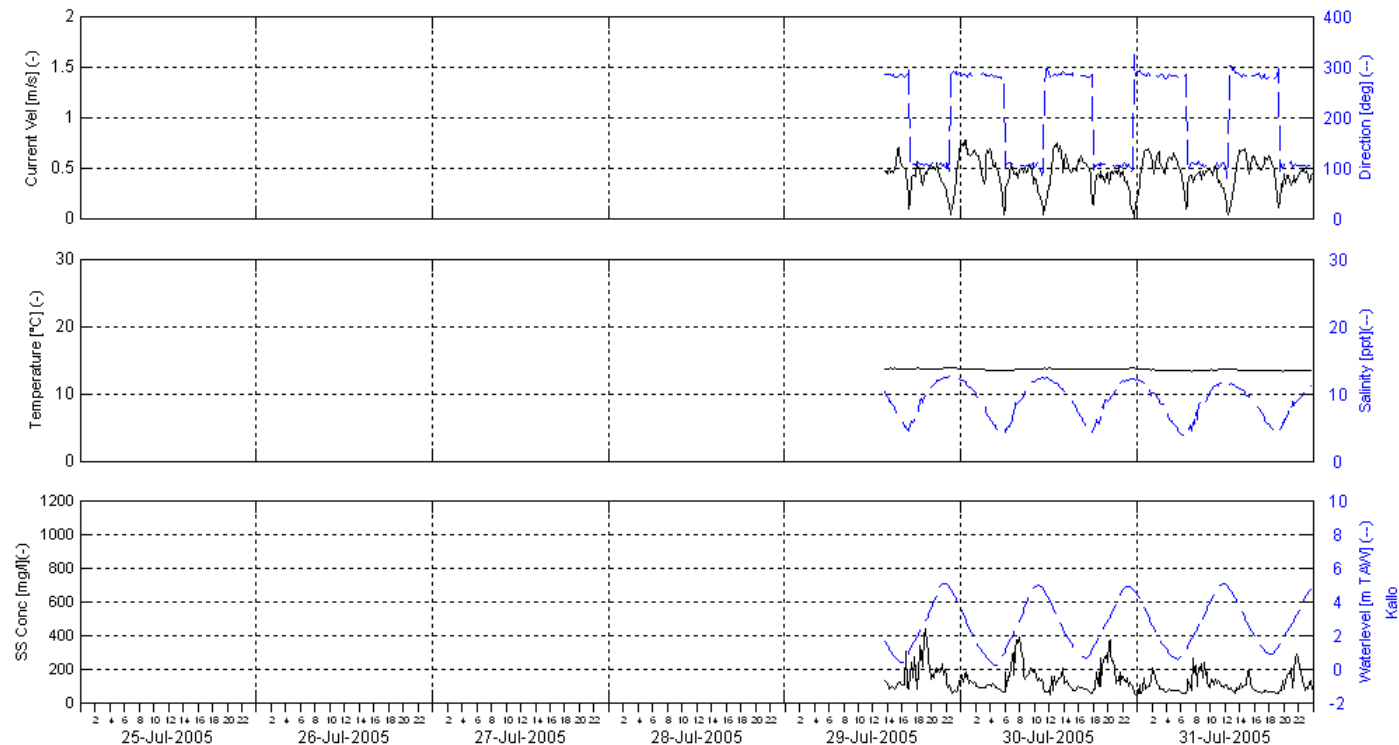
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

## Boerenschans Week 31 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 2m above bottom (-7m TAW)

Data processed by:

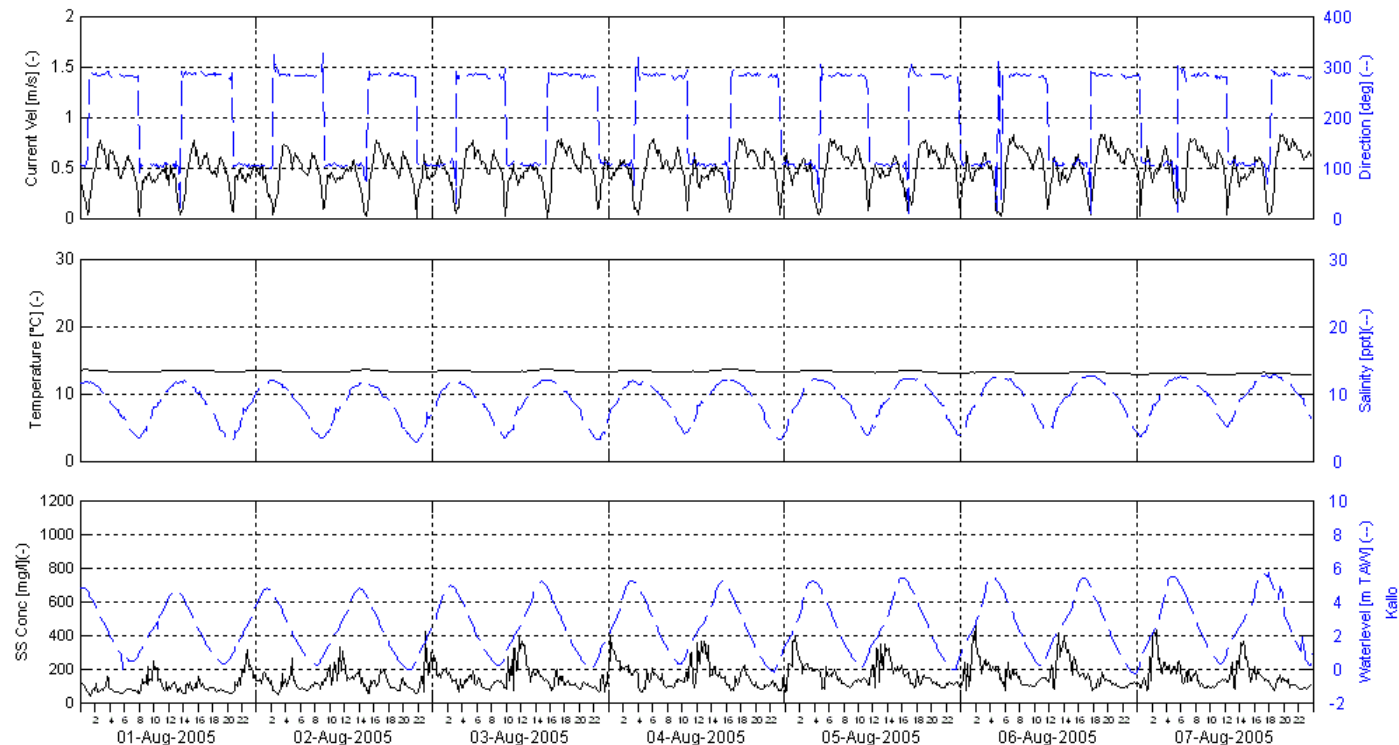


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 32 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 2m above bottom (-7m TAW)

Data processed by:

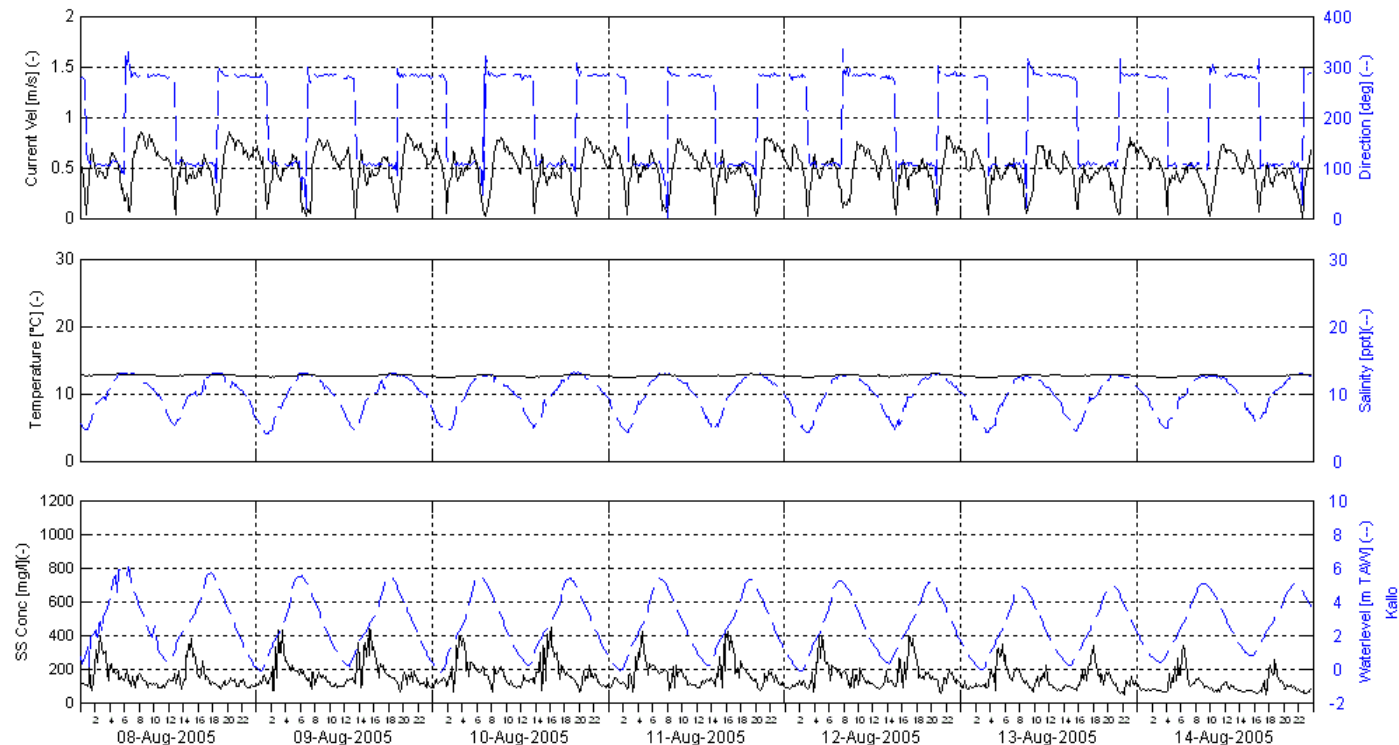


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 33 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 2m above bottom (-7m TAW)

Data processed by:

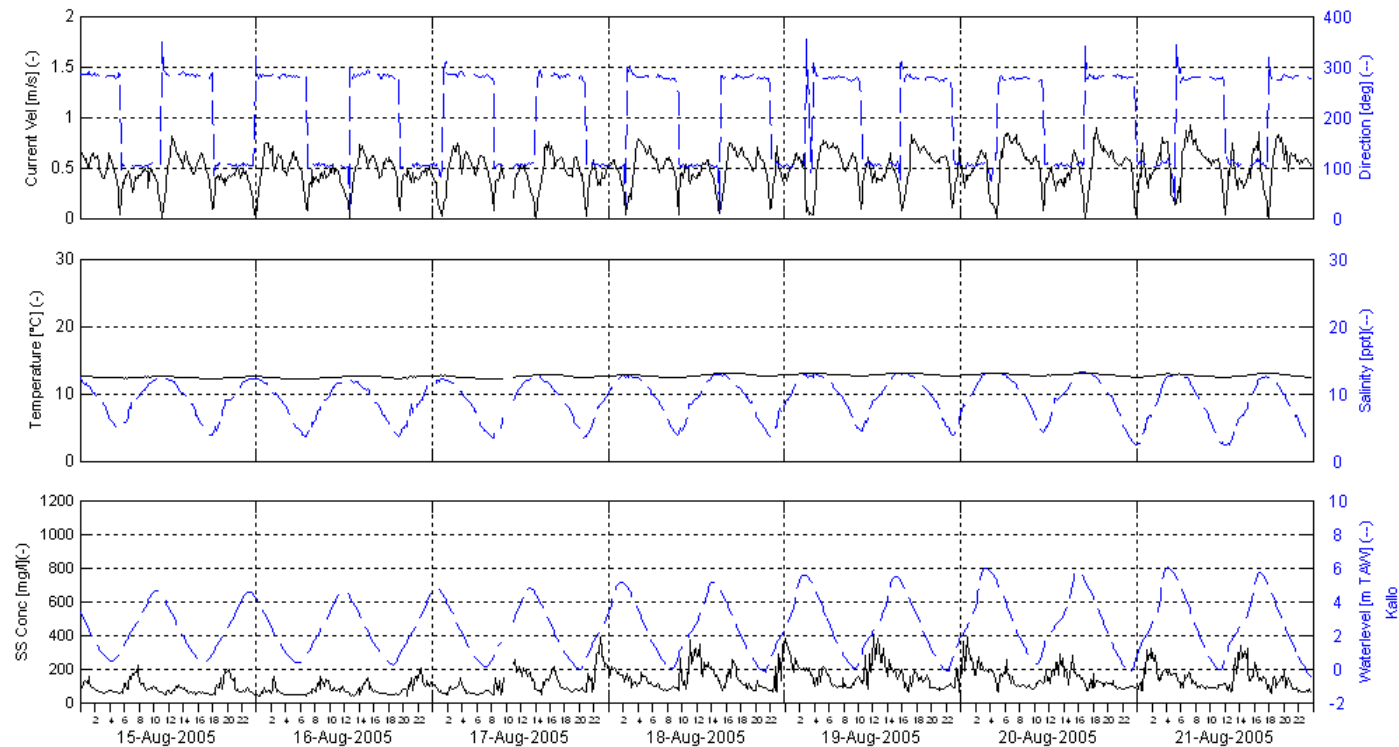


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 34 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 2m above bottom (-7m TAW)

Data processed by:

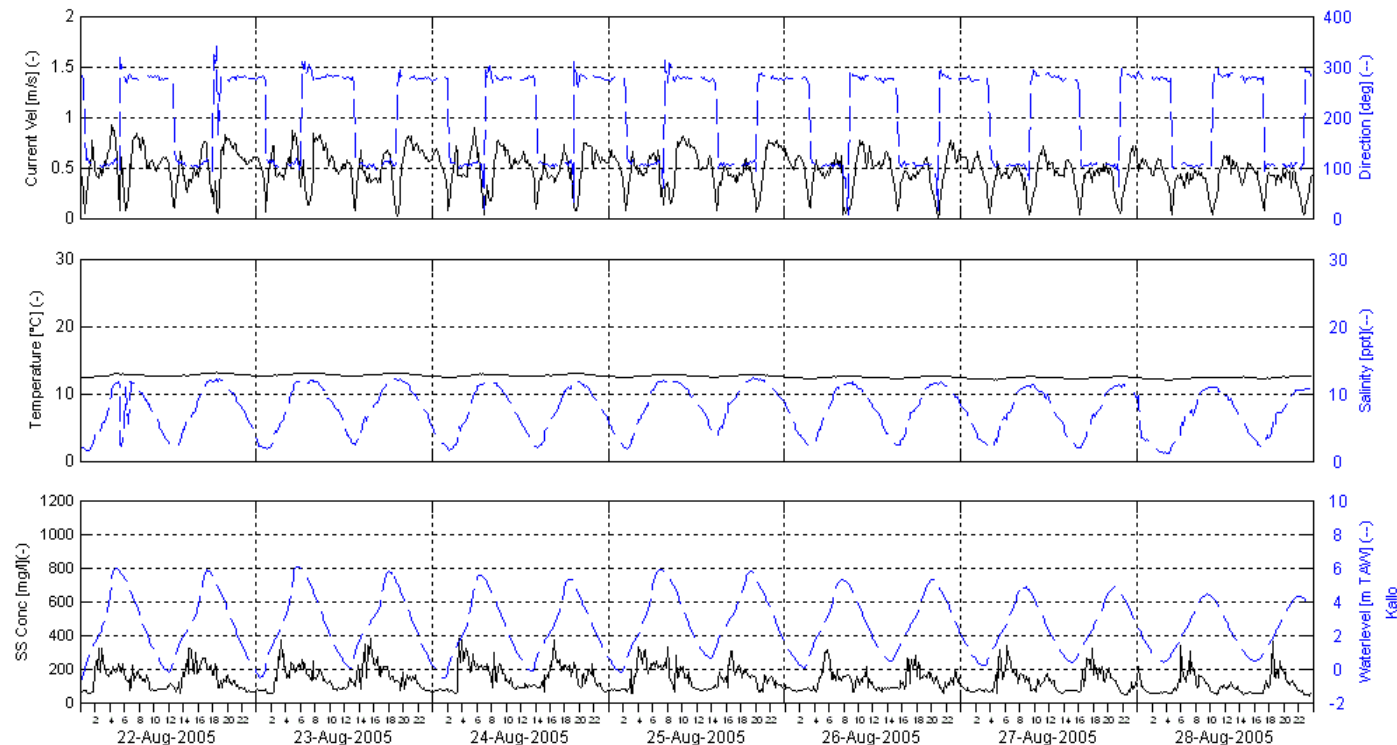


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 35 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 2m above bottom (-7m TAW)

Data processed by:

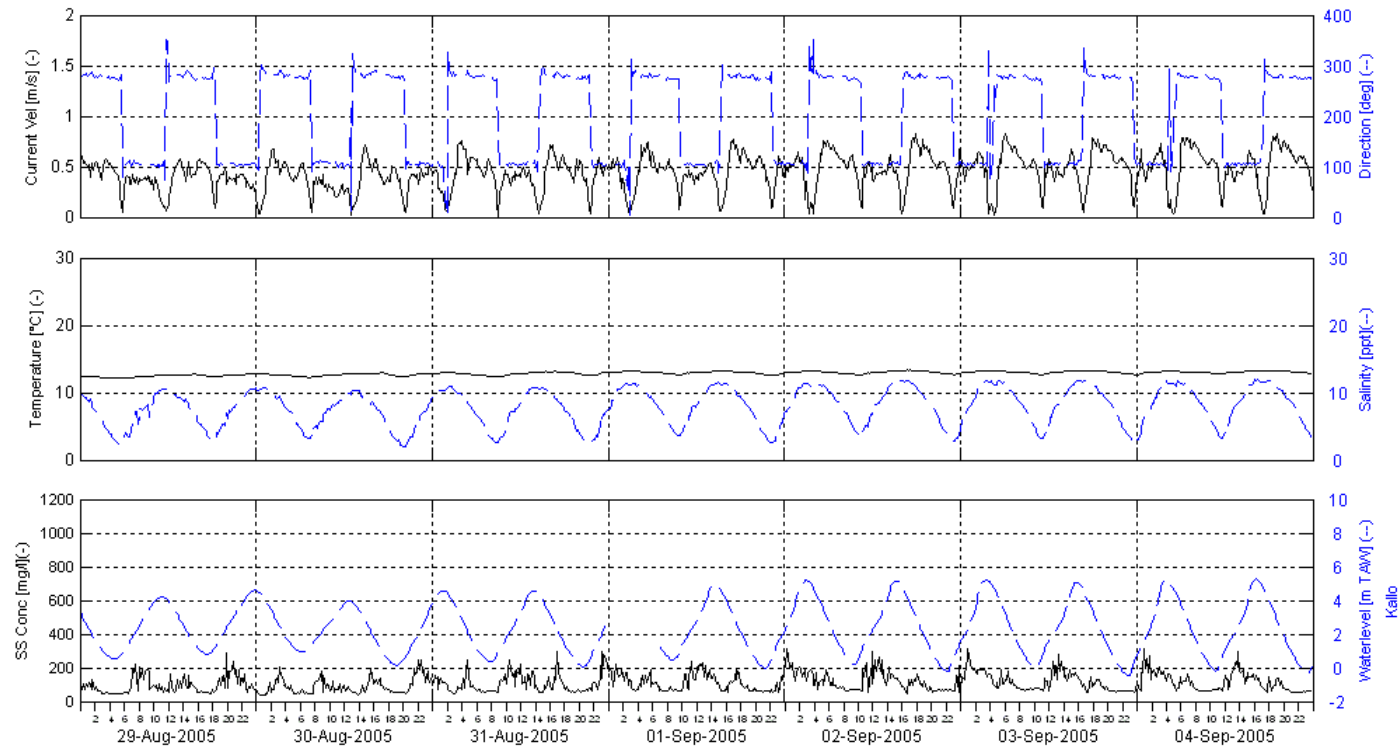


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 36 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 2m above bottom (-7m TAW)

Data processed by:

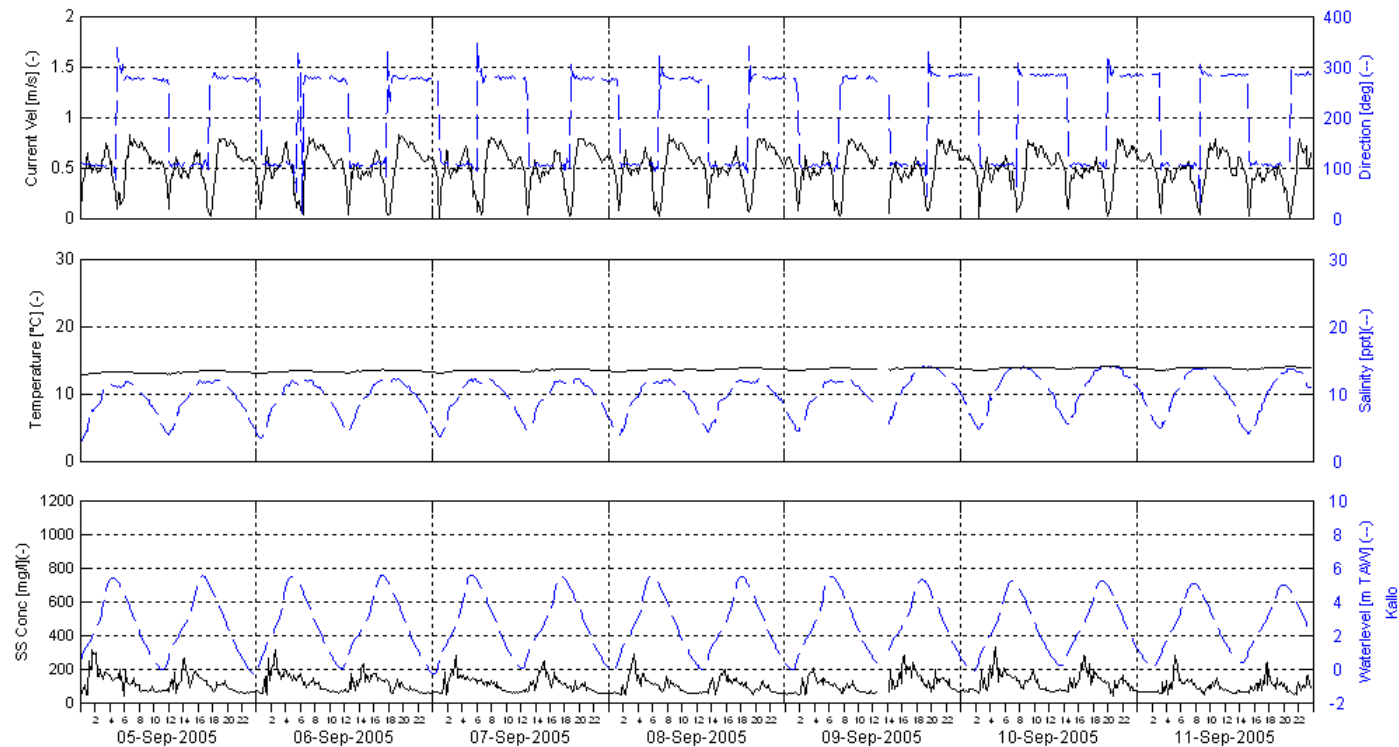


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 37 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 2m above bottom (-7m TAW)

Data processed by:

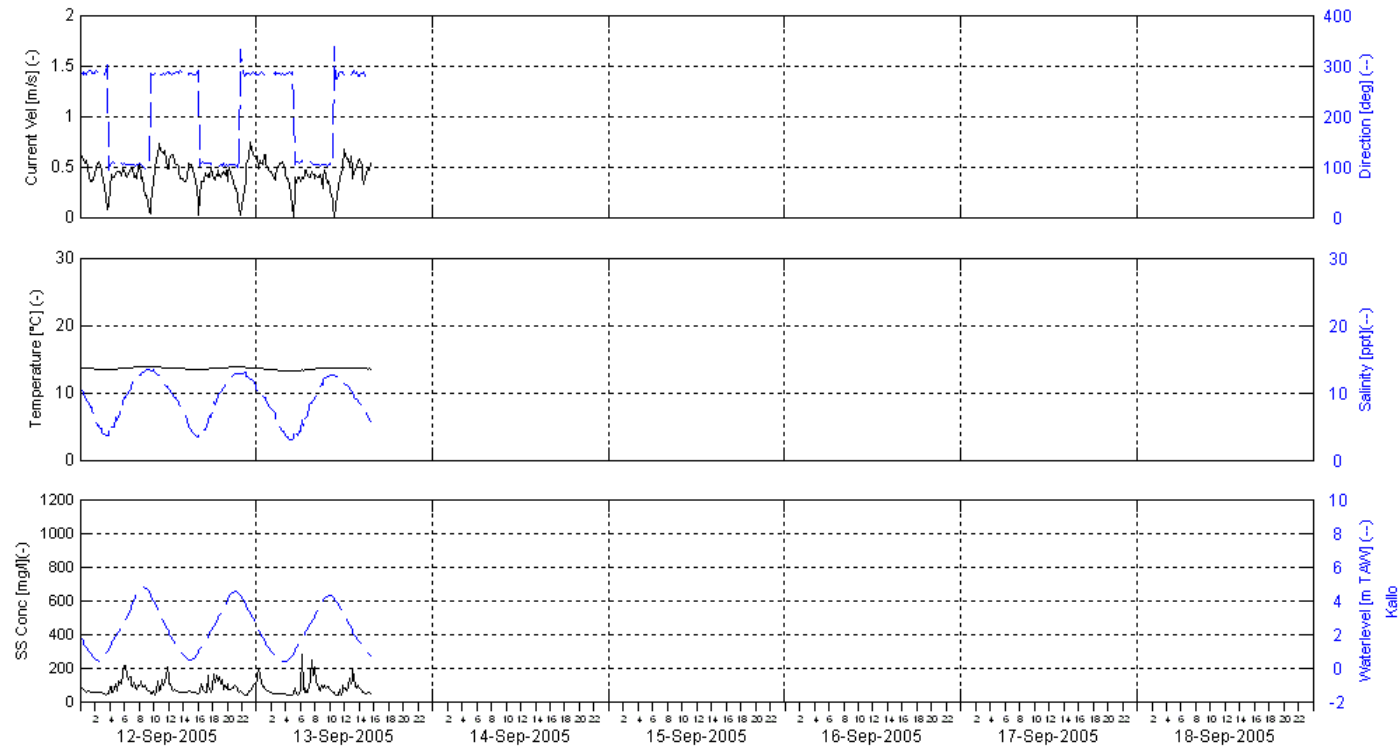


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 38 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Boerenschans 2m above bottom (-7m TAW)

Data processed by:



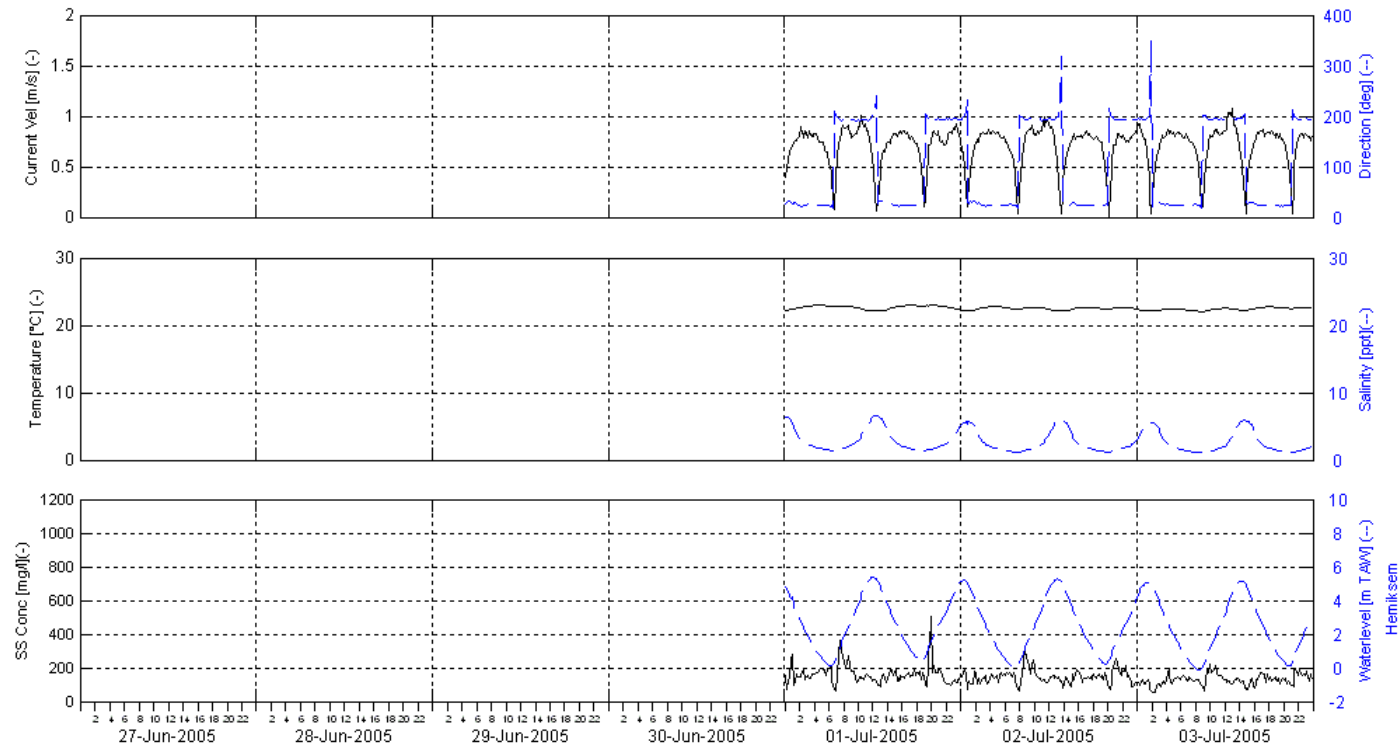
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 27 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

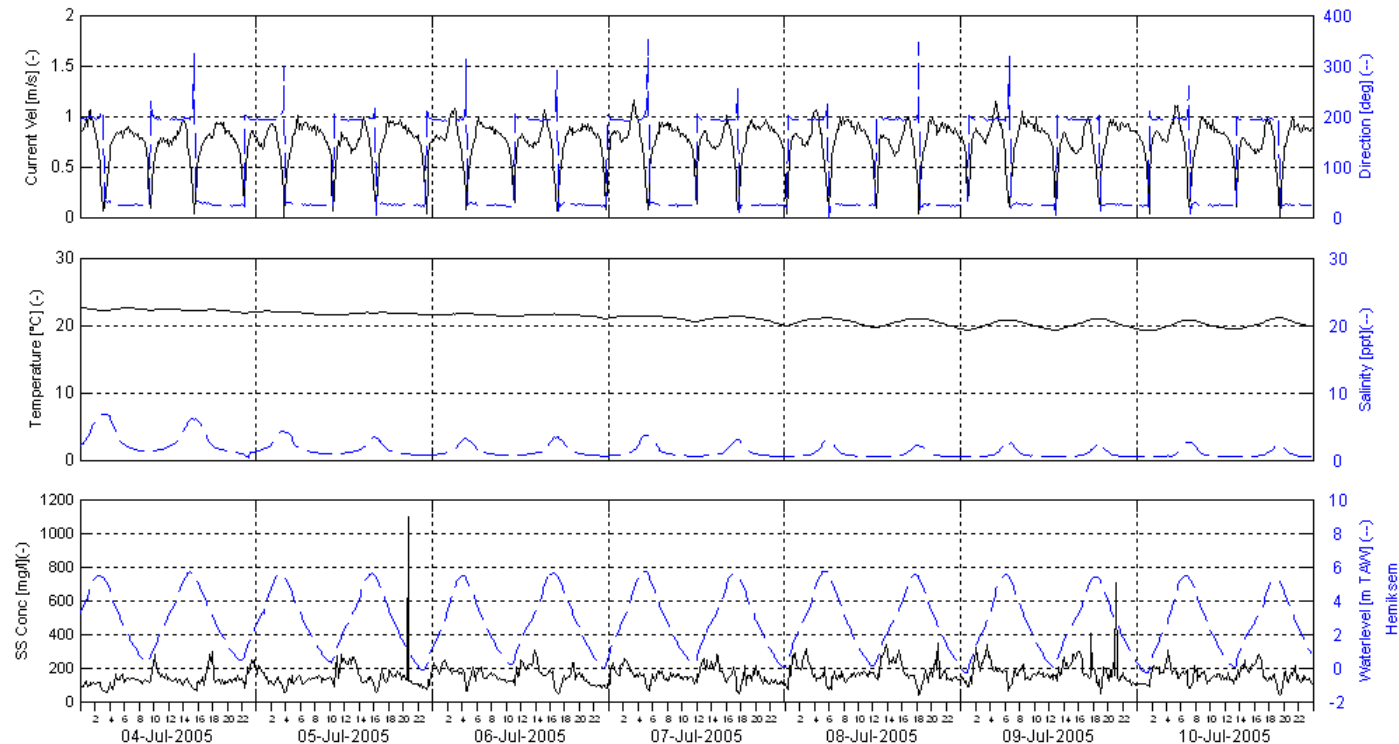


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 28 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

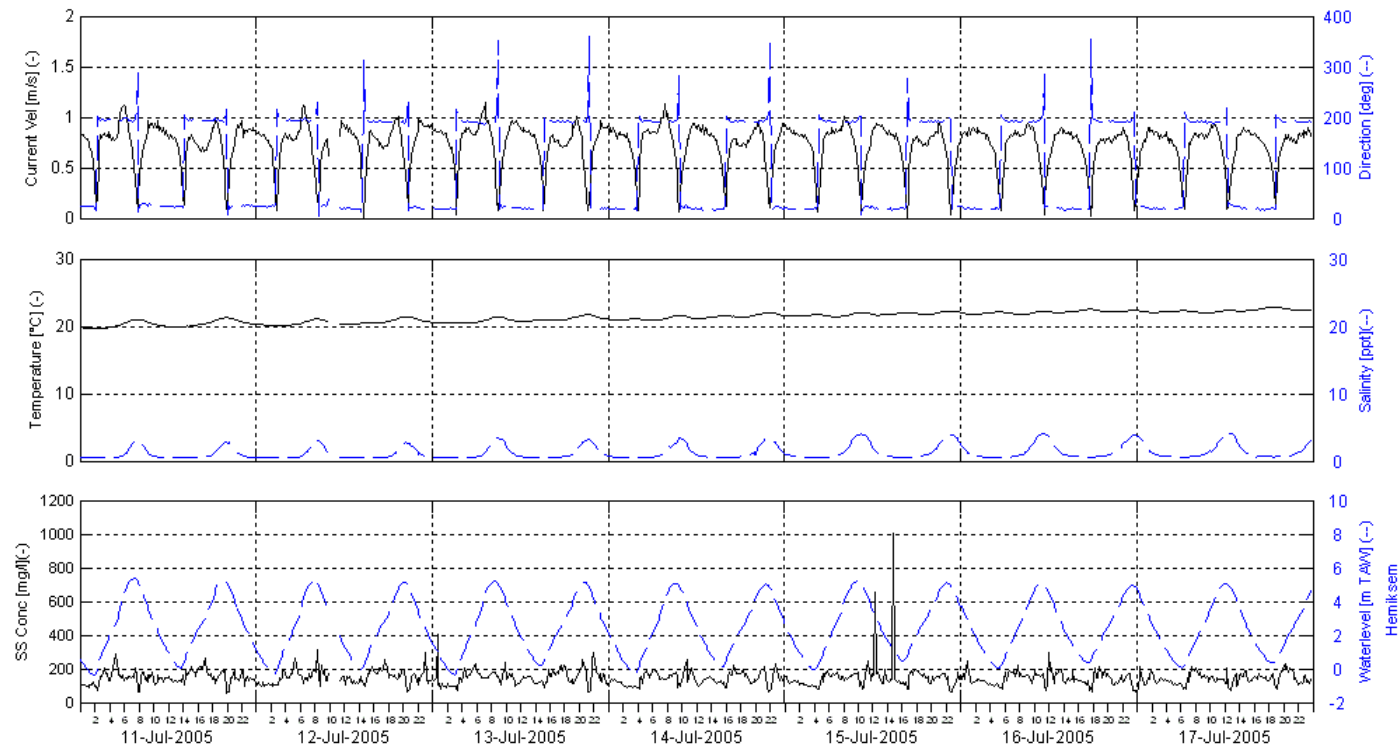


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 29 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

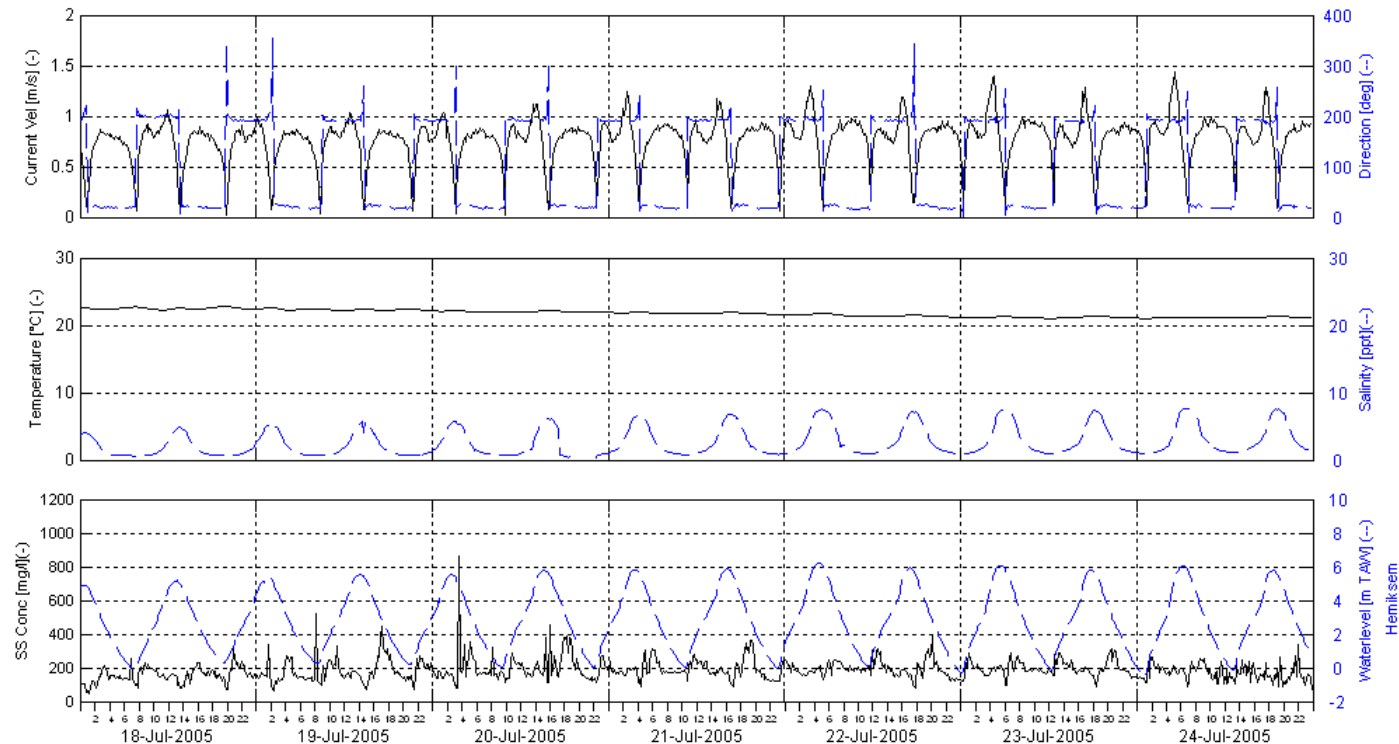


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 30 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

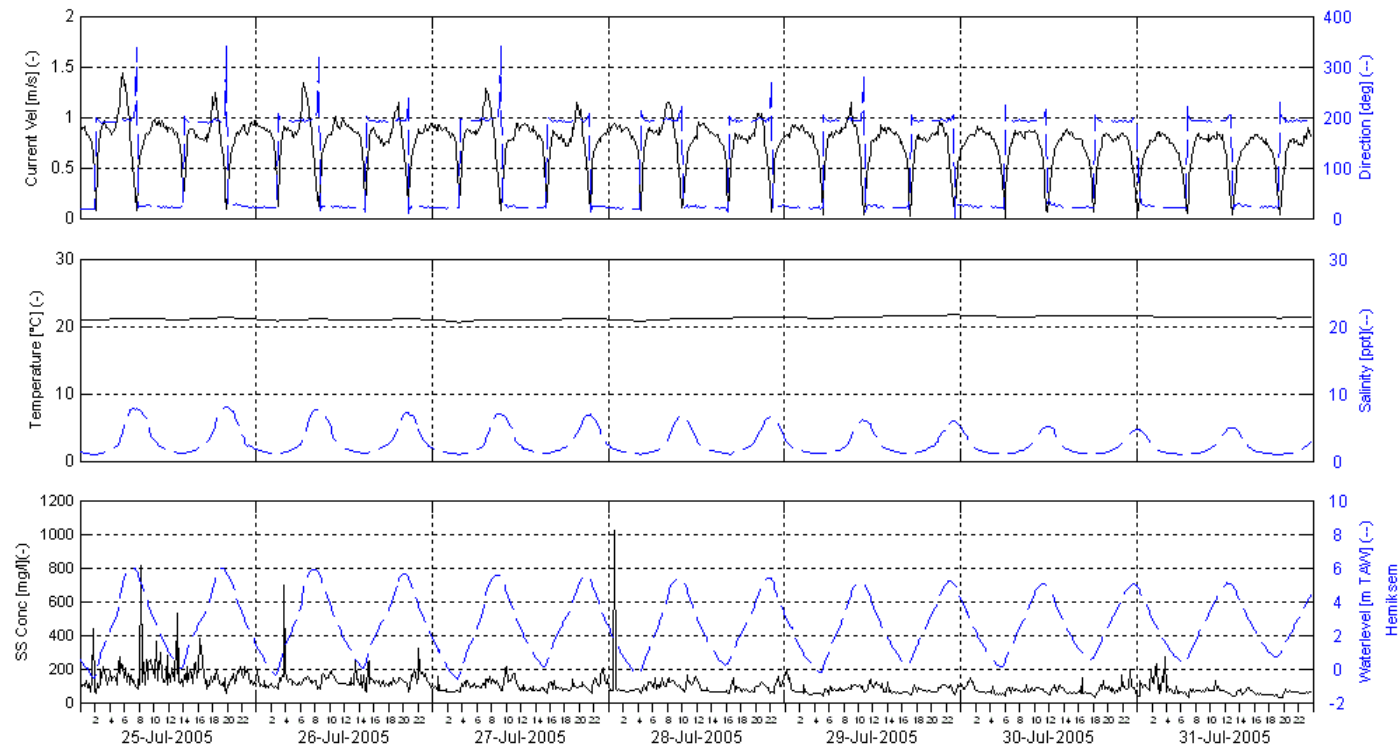


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 31 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

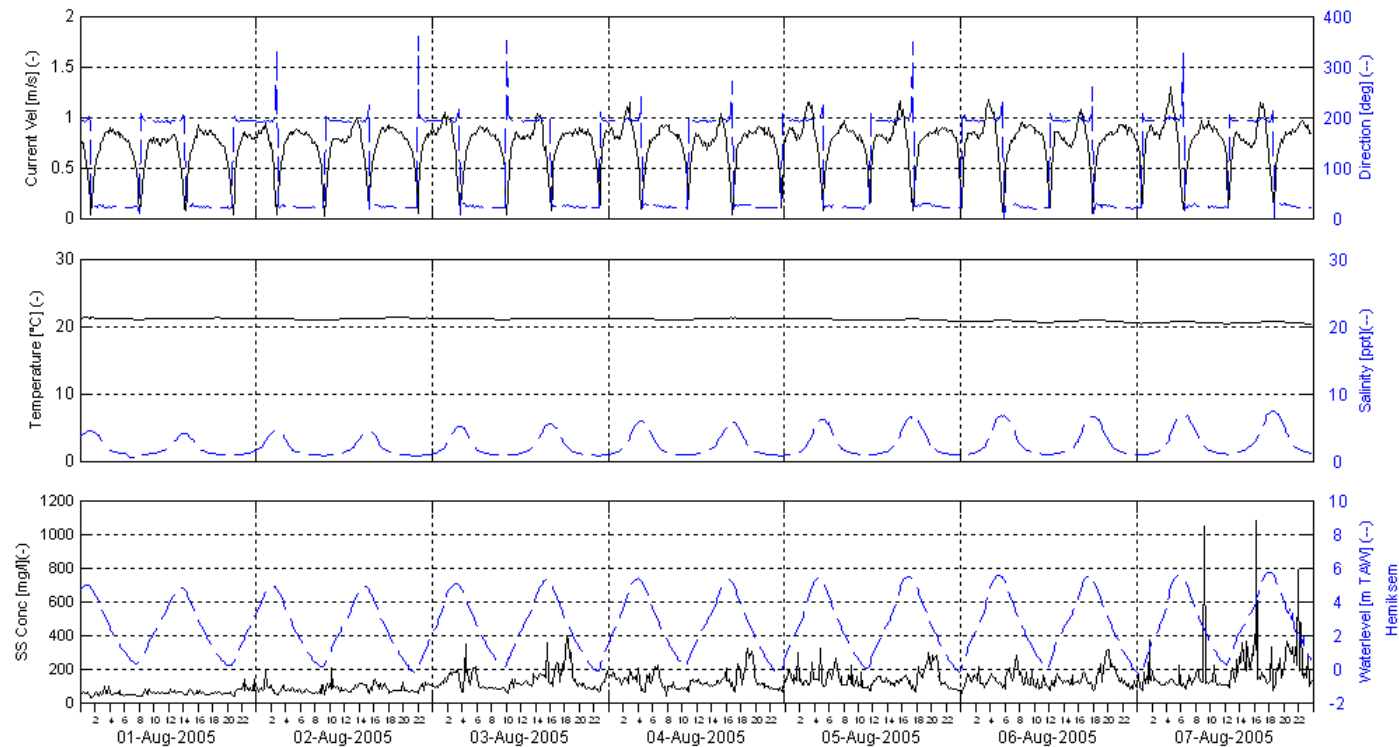


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 32 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

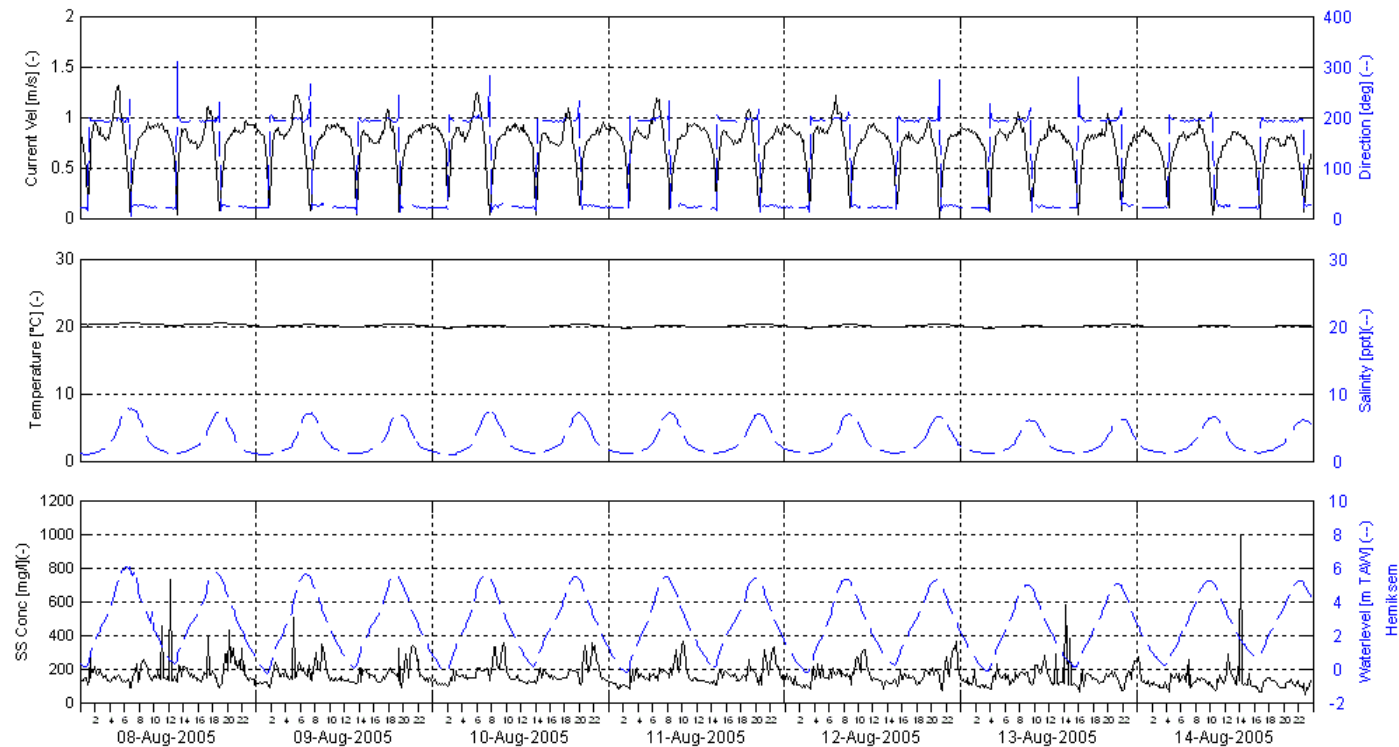


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 33 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

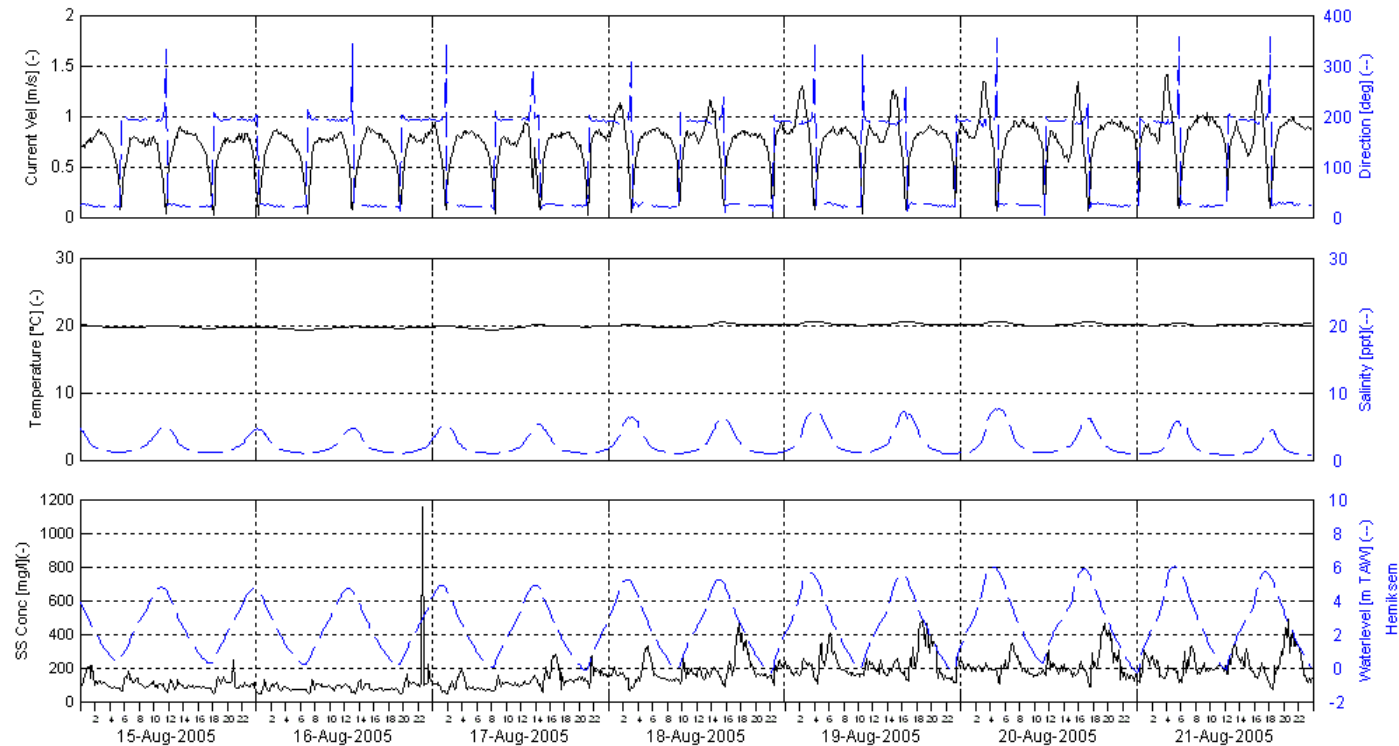


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 34 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:



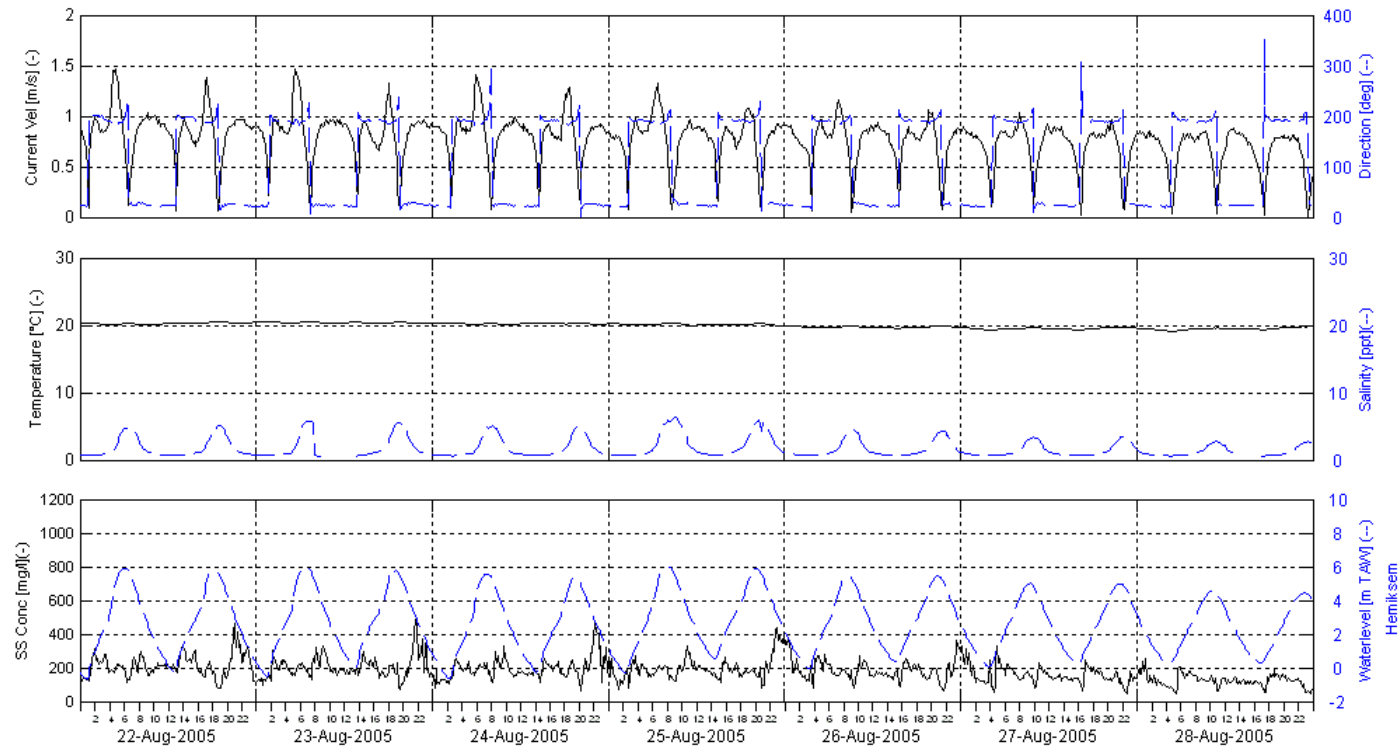
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 35 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

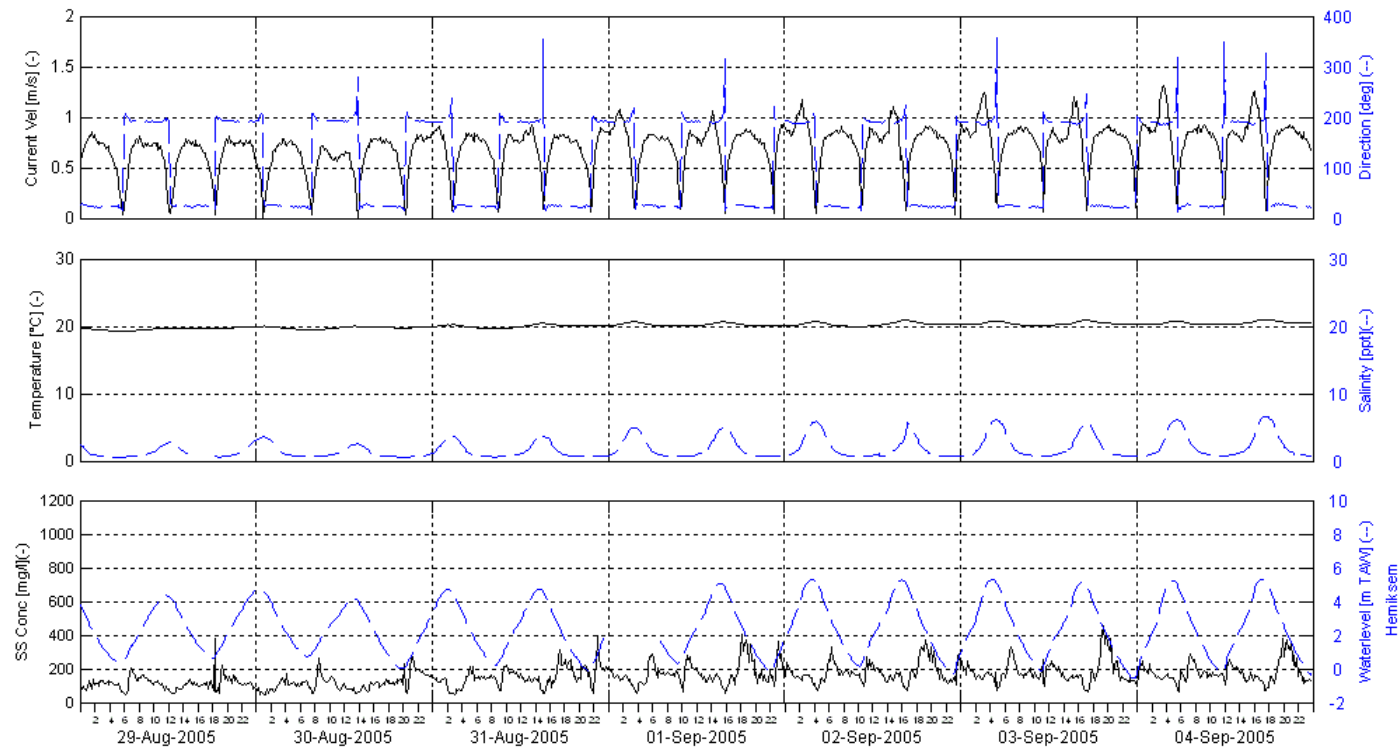


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 36 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

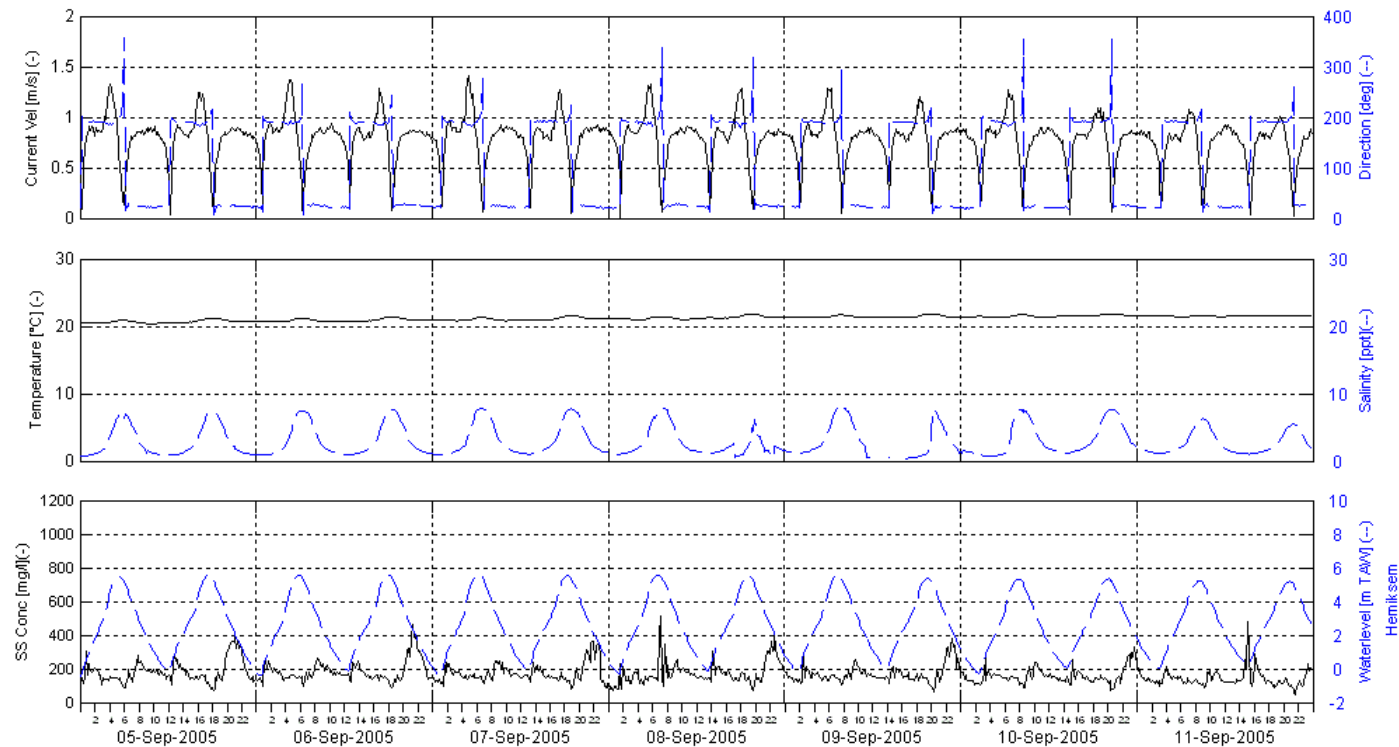


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 37 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

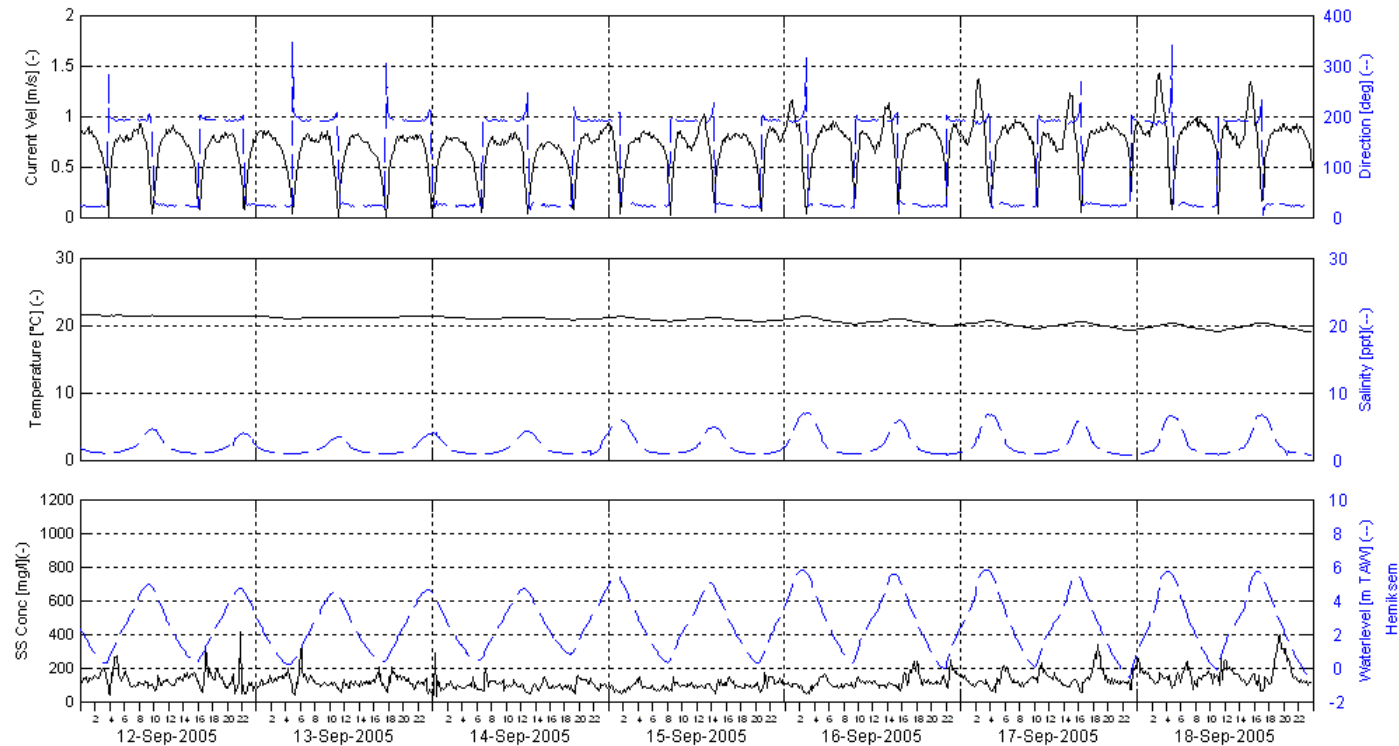


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 38 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

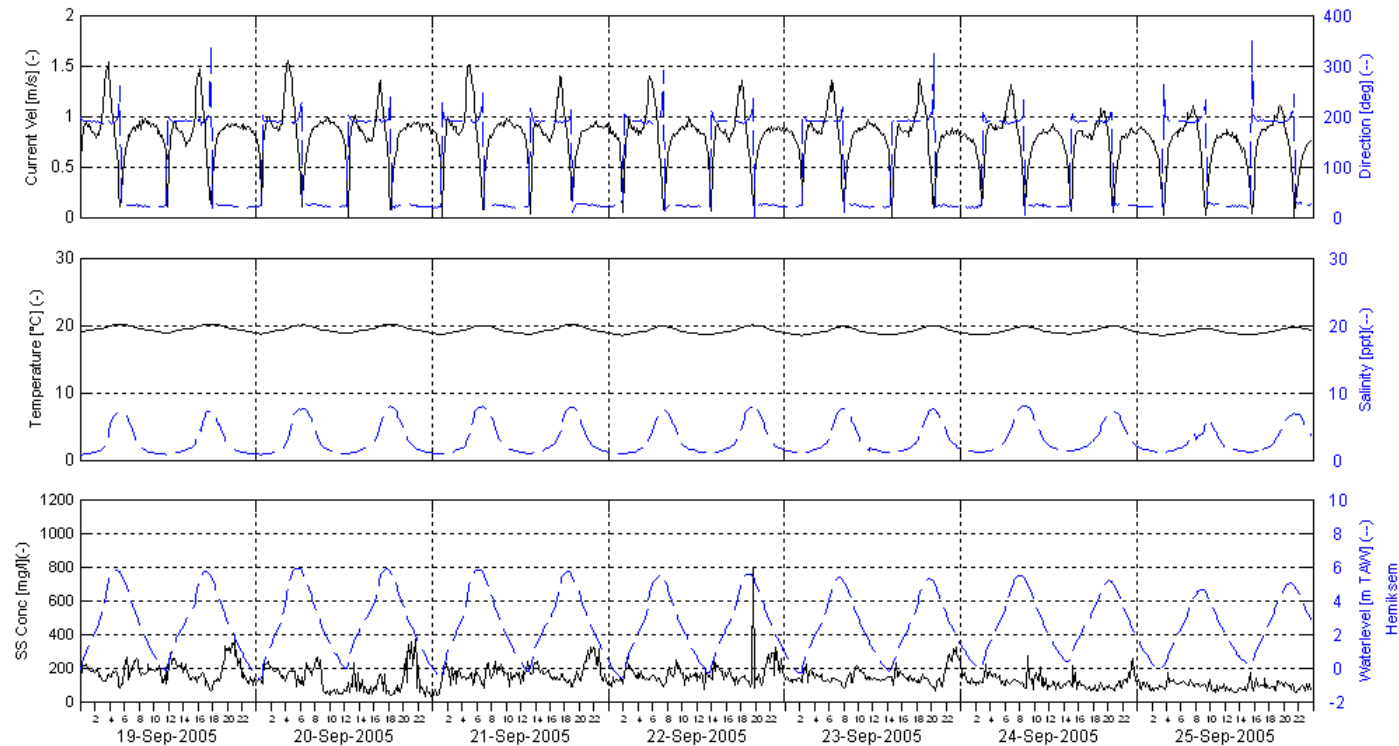


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 39 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

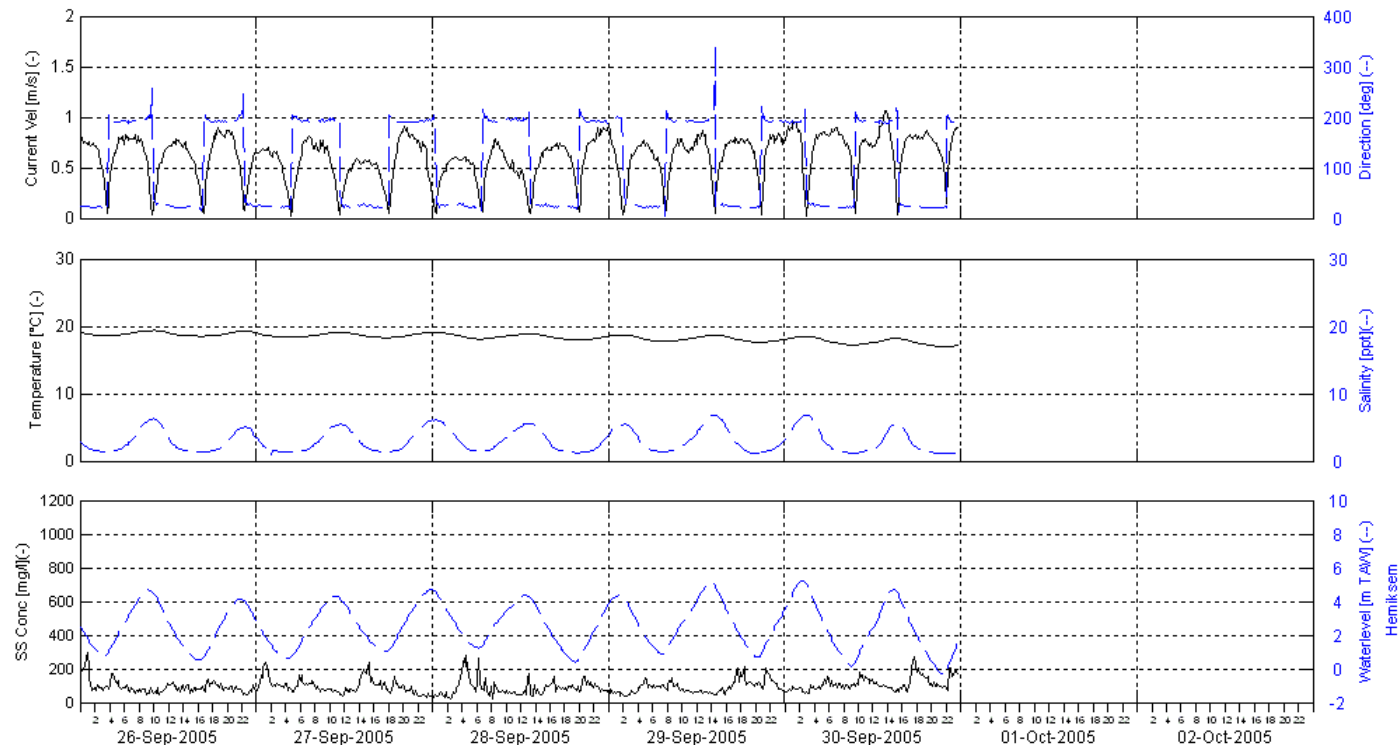


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Hoboken 2m above bottom (-5m TAW)

Data processed by:

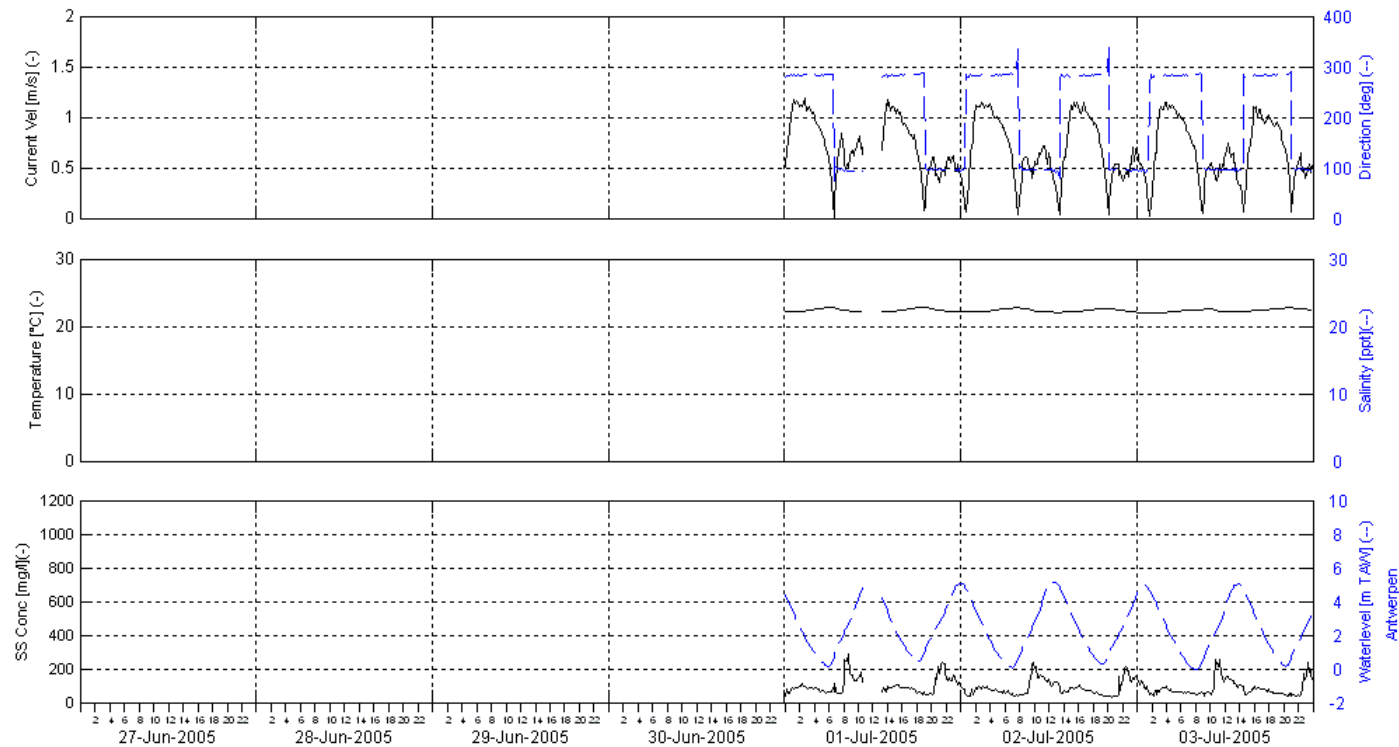


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 27 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

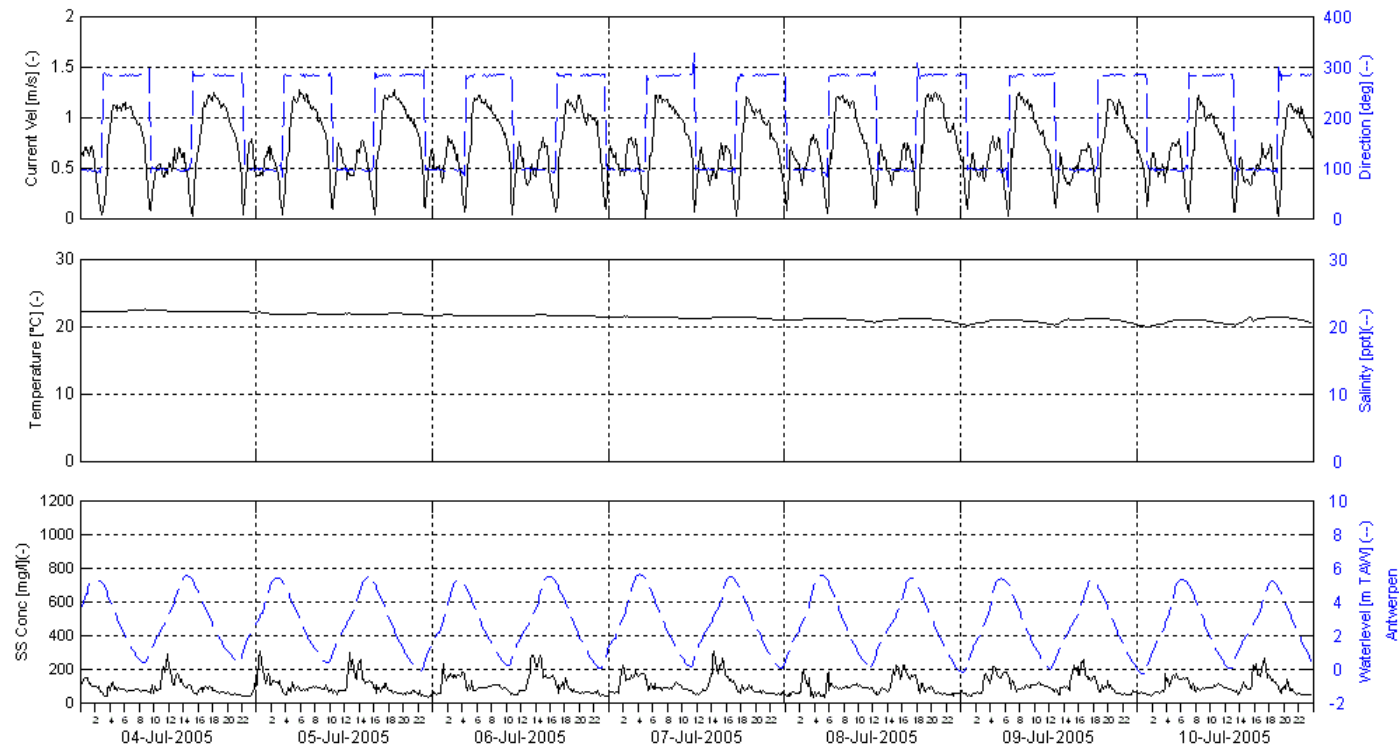


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 28 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:



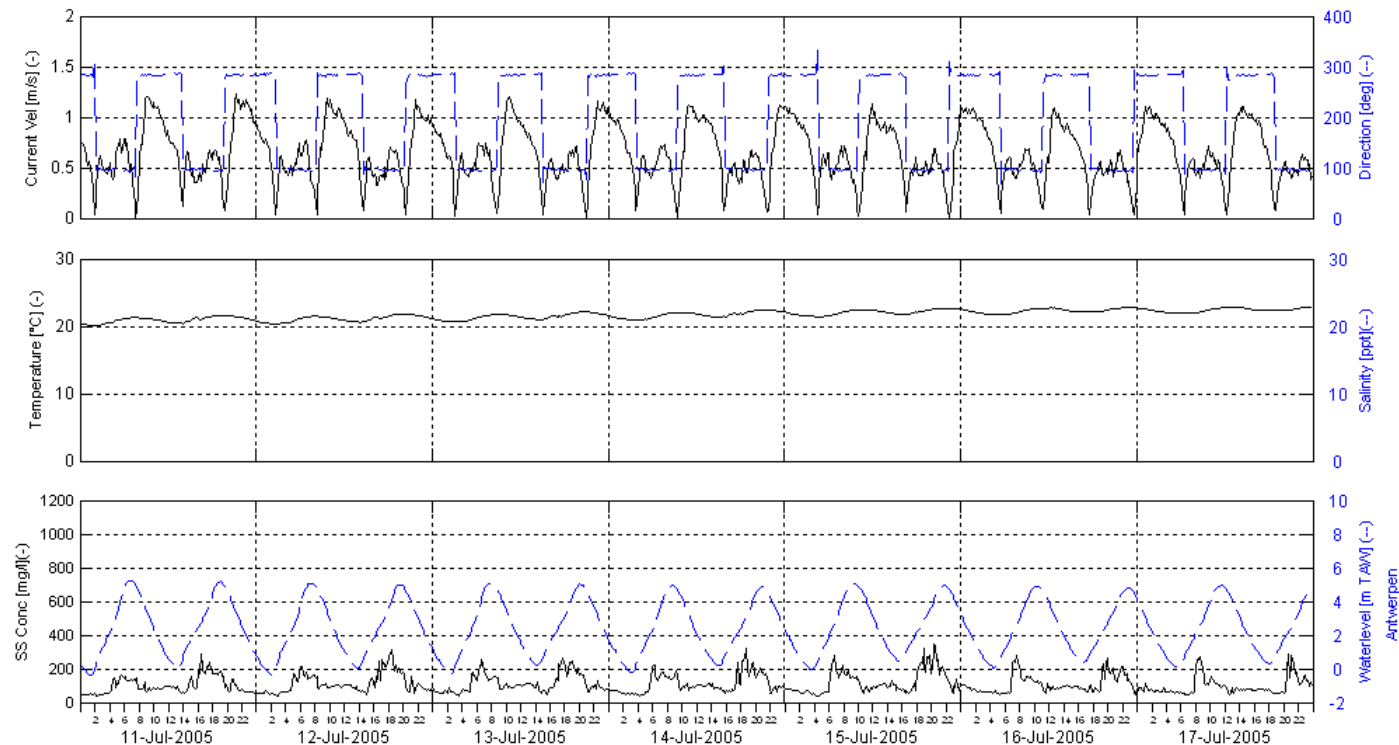
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 29 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

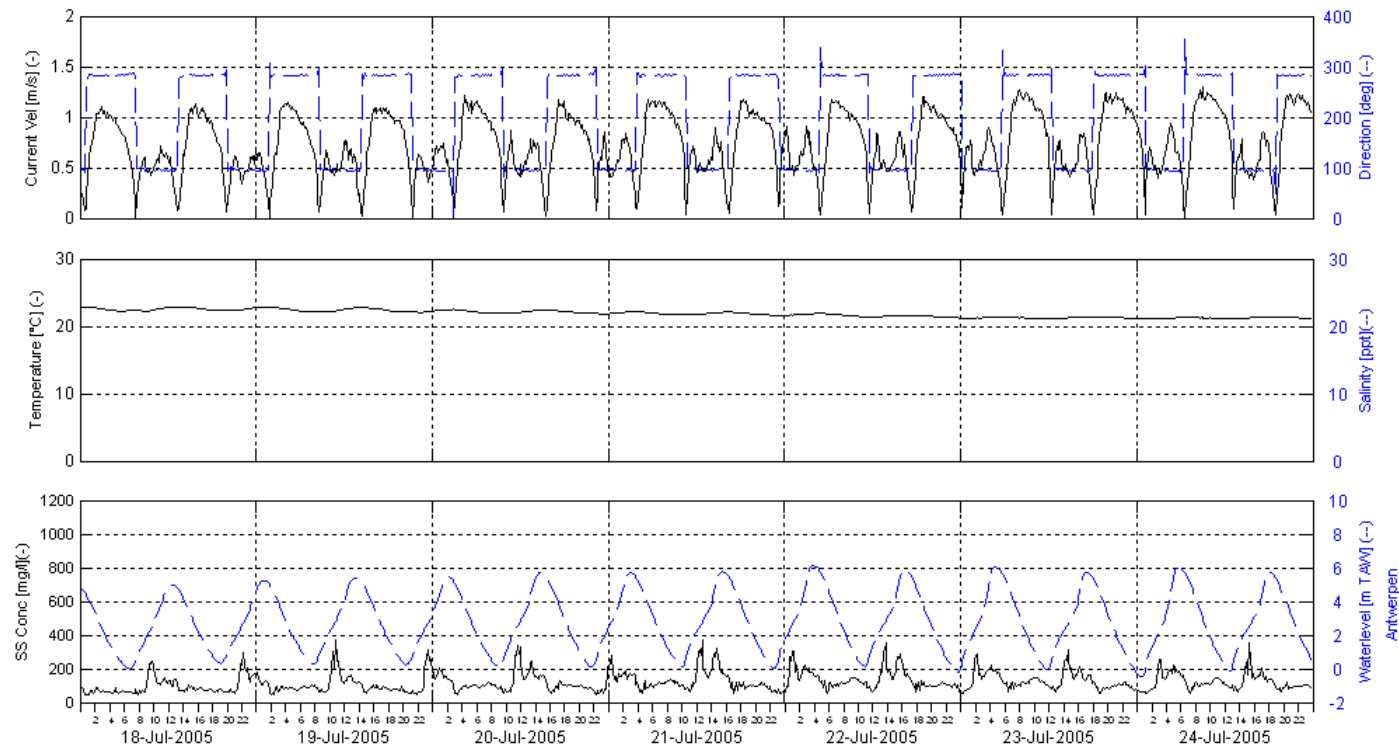


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 30 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

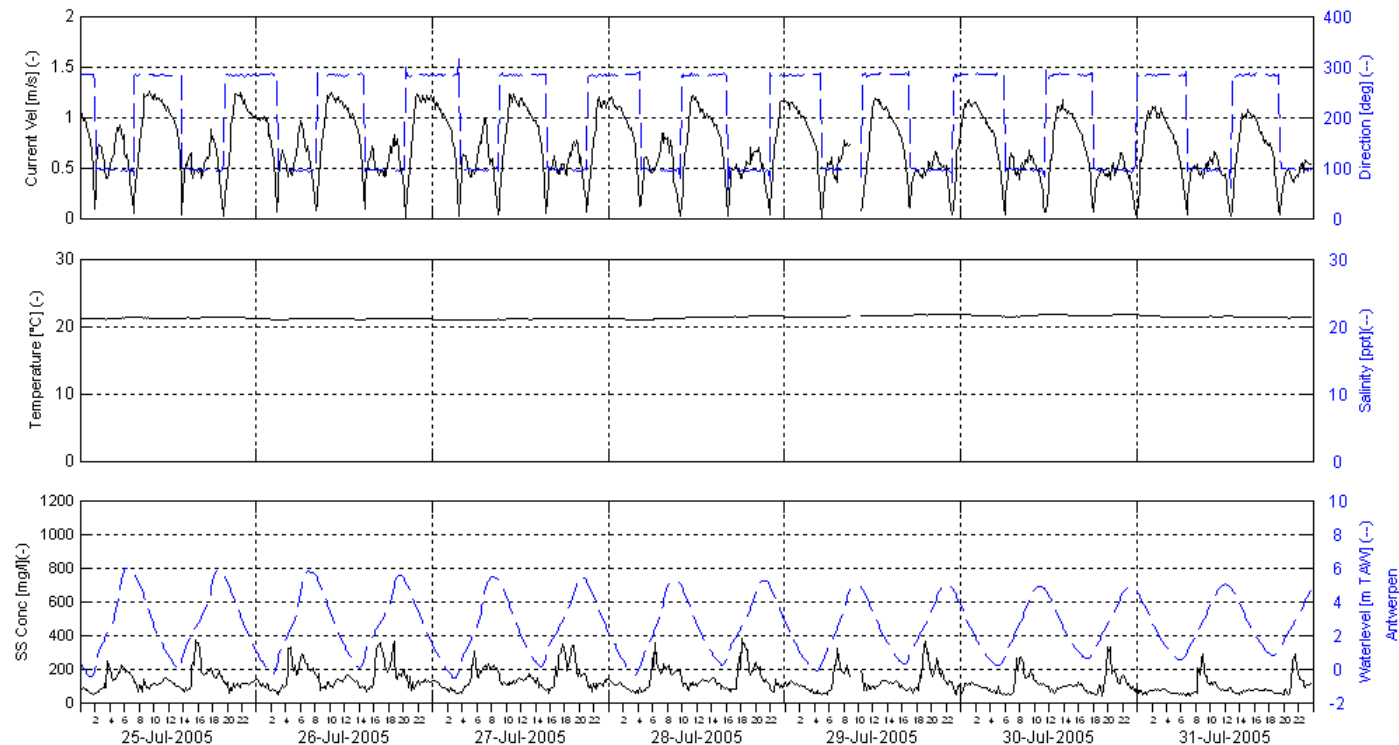


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 31 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

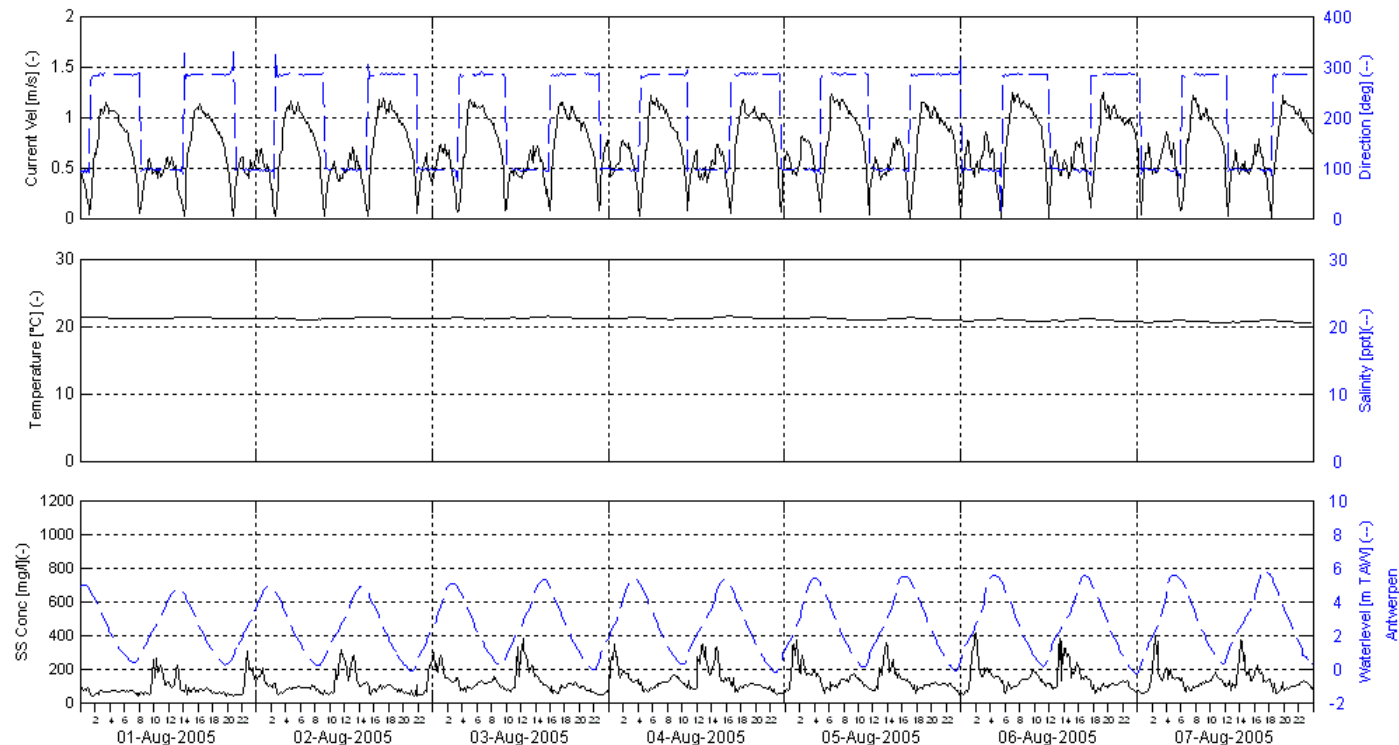


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 32 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

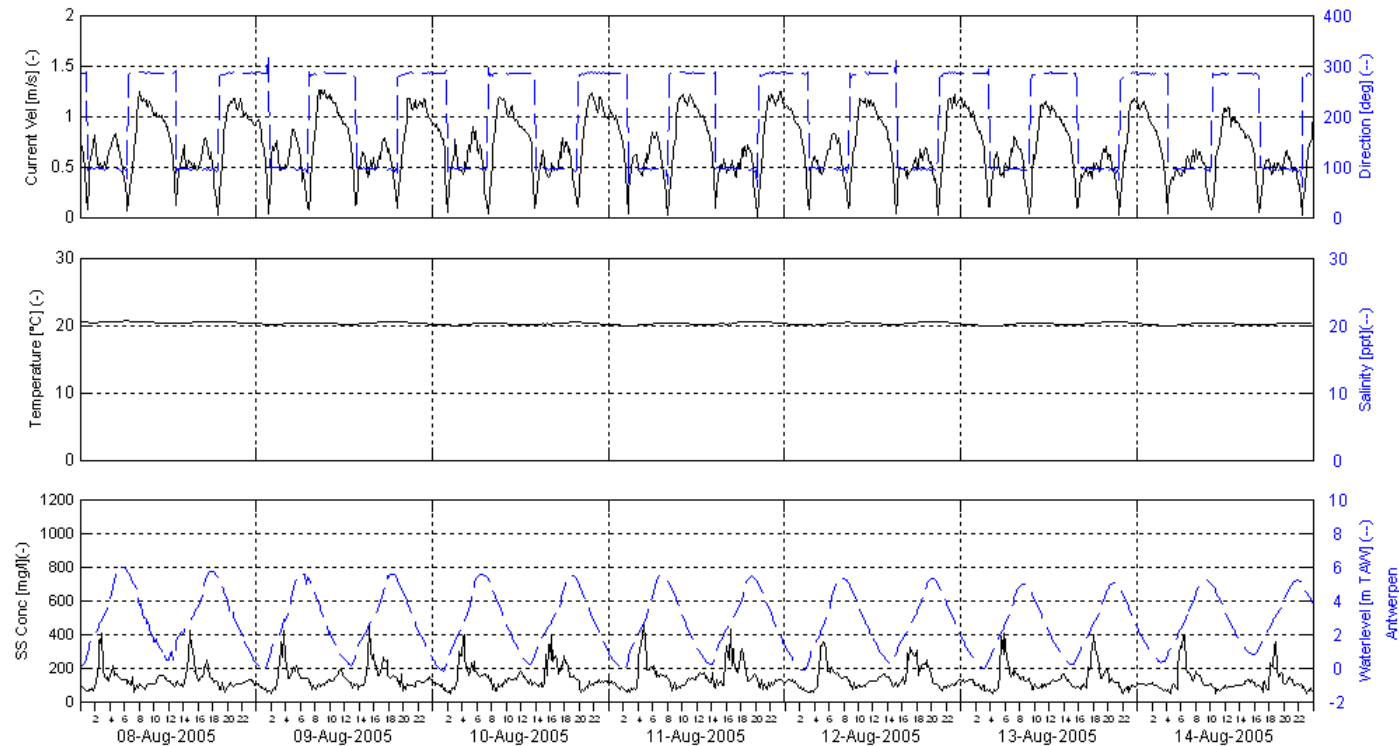


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 33 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

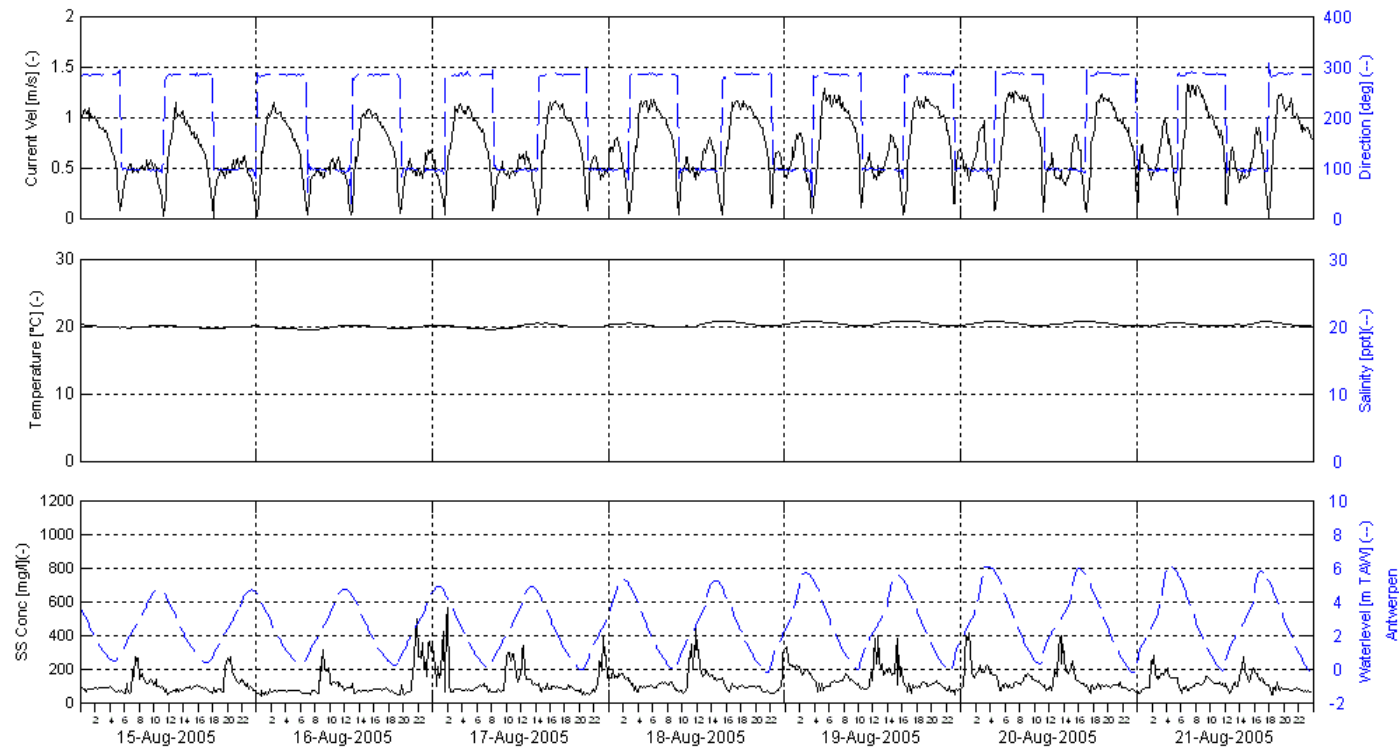


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 34 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

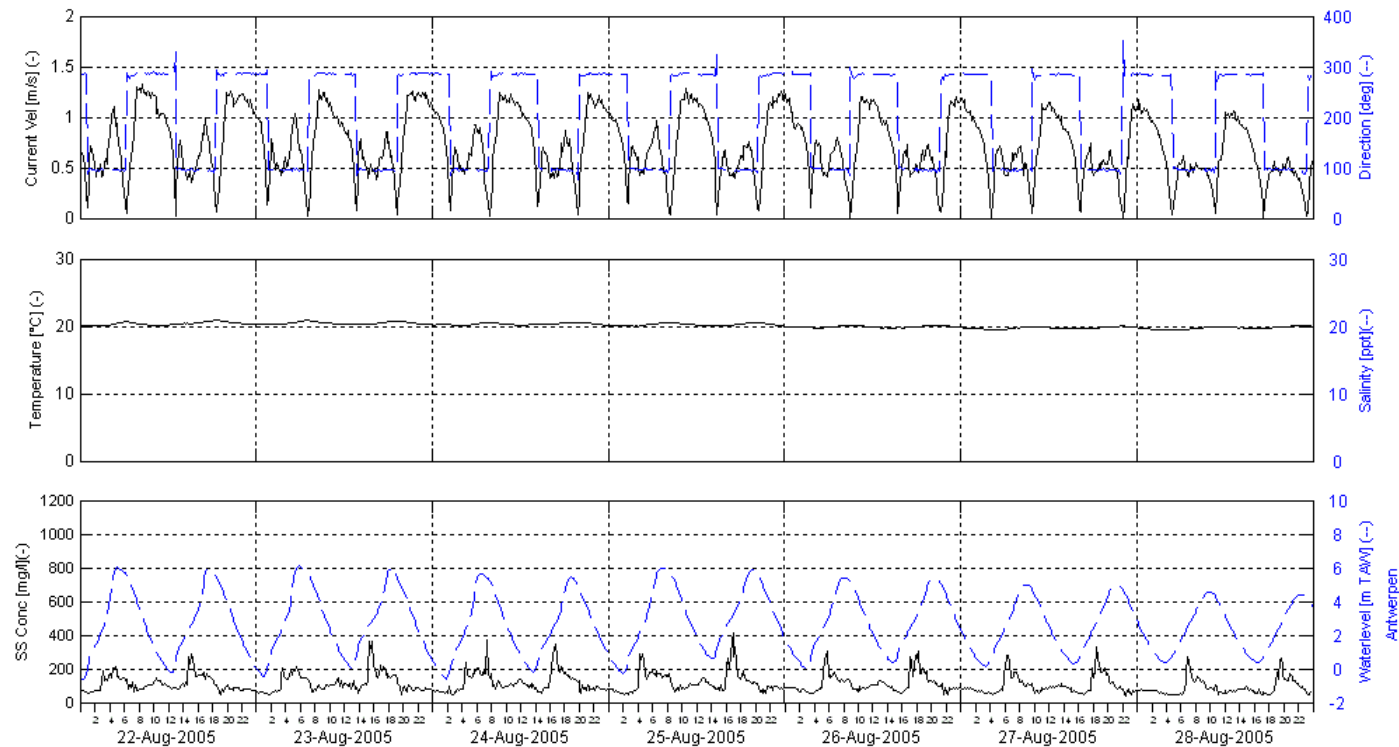


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 35 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

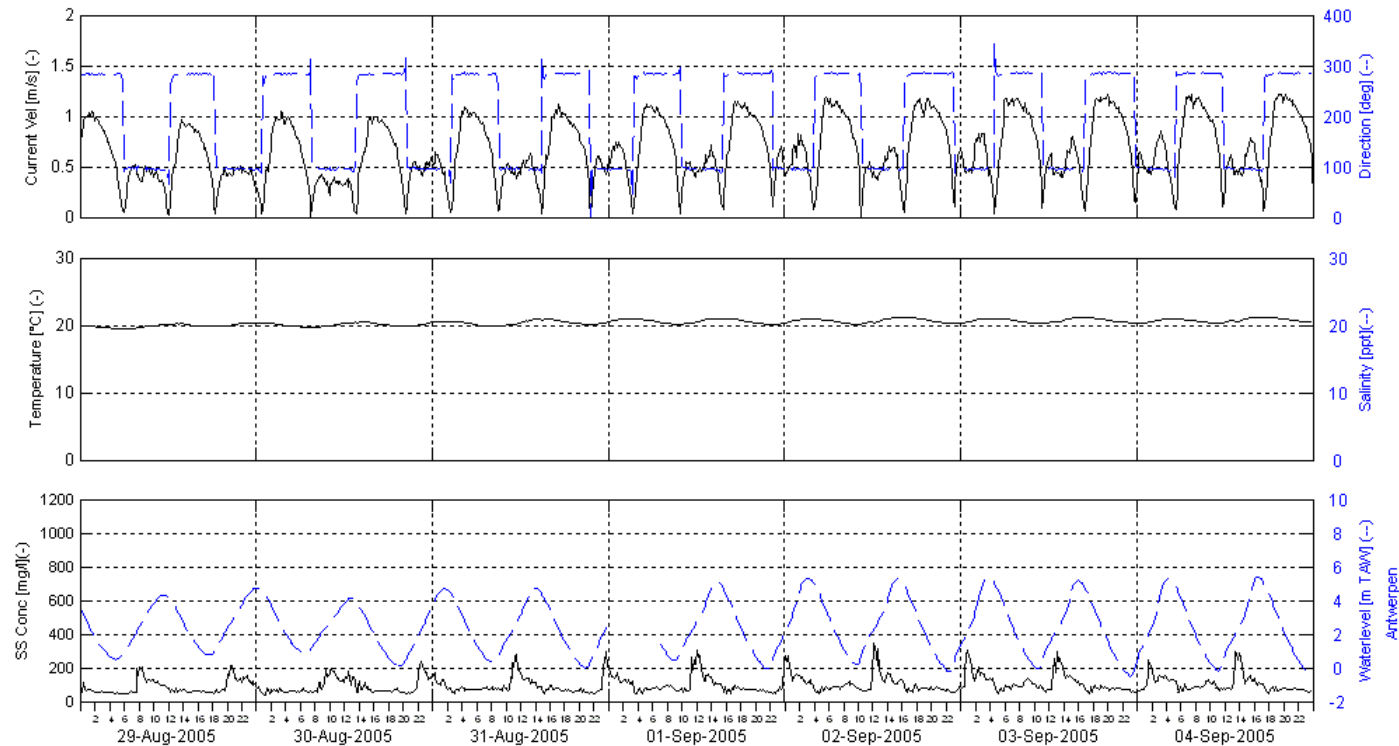


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 36 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:



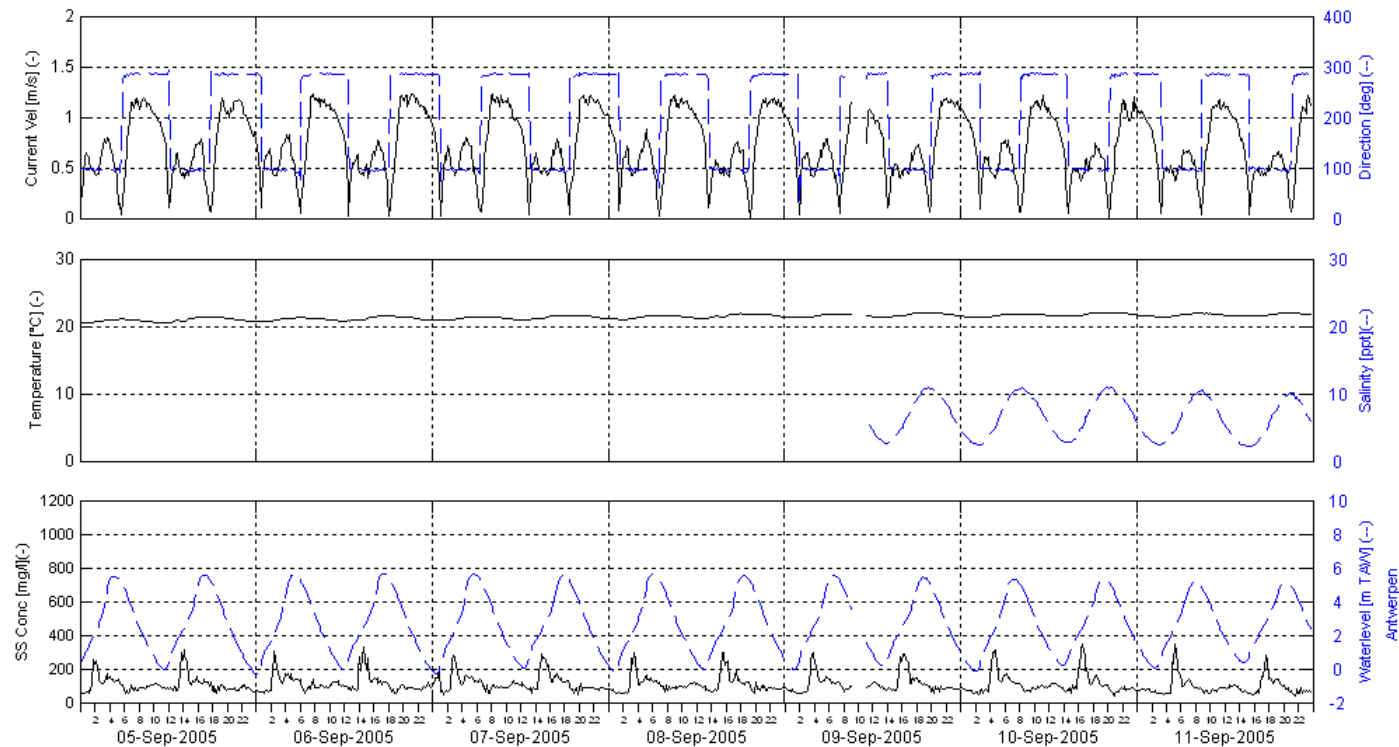
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 37 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

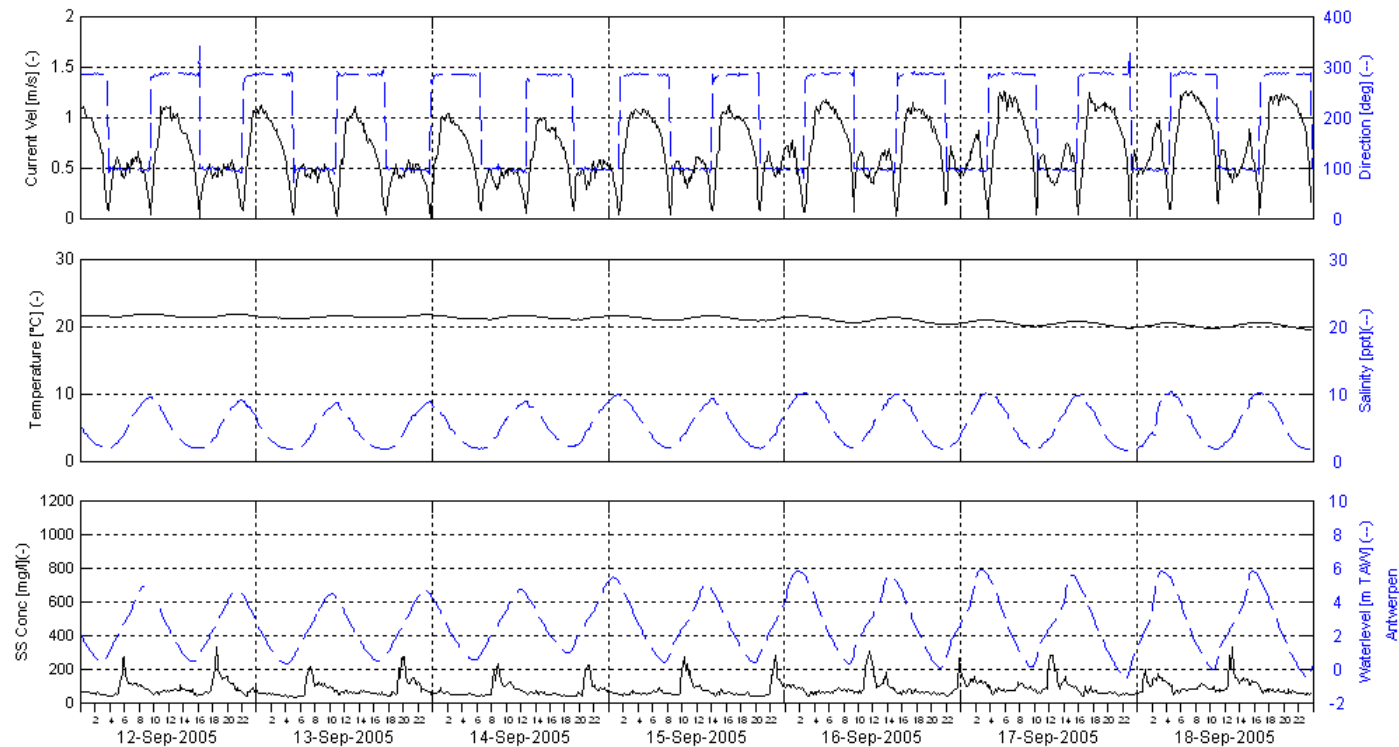


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 38 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

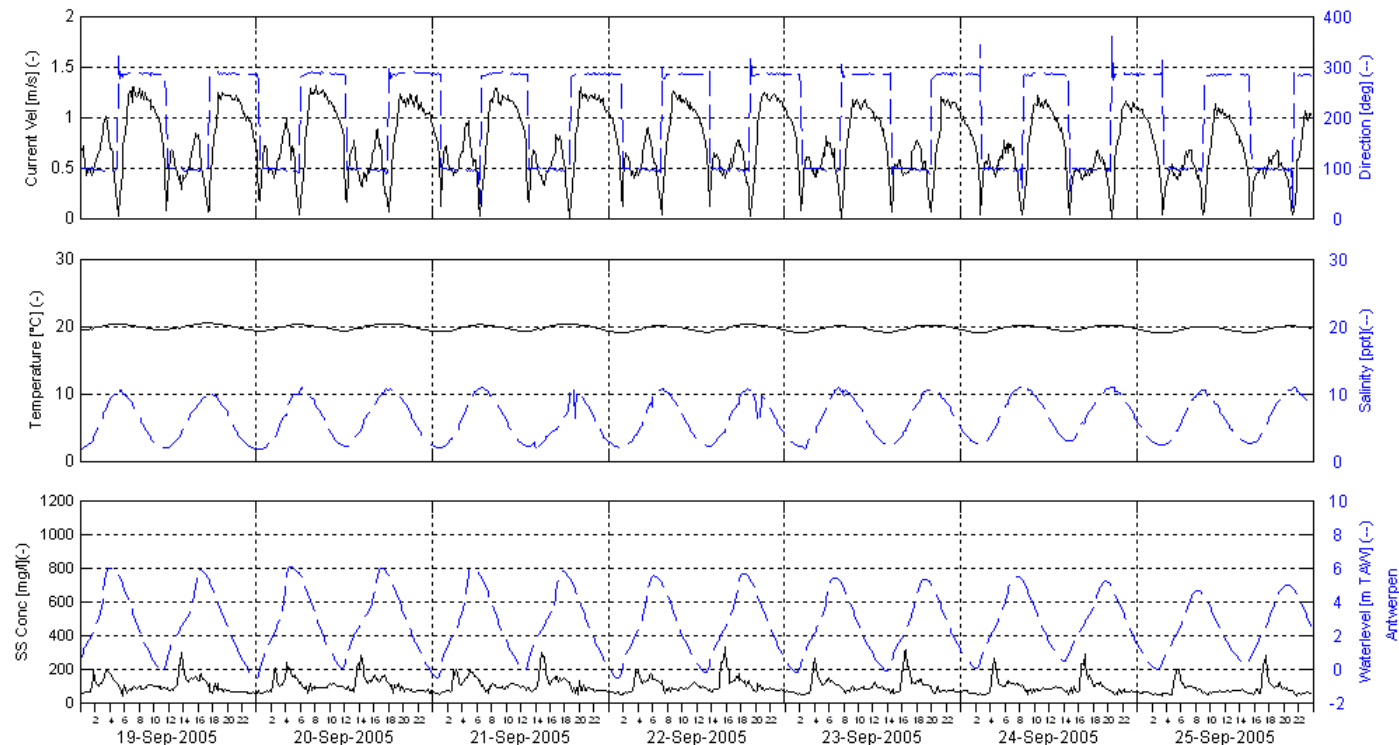


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 39 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

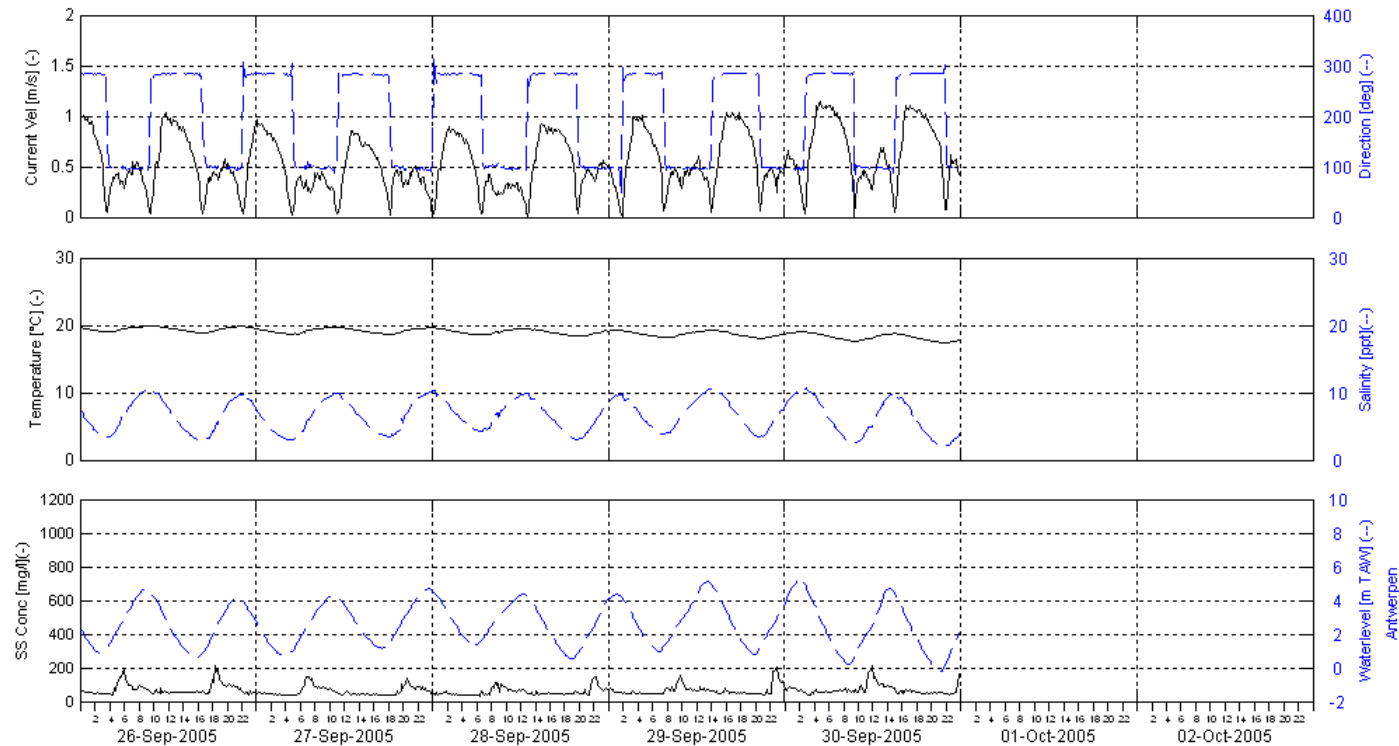


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 4m above bottom (-7m TAW)

Data processed by:

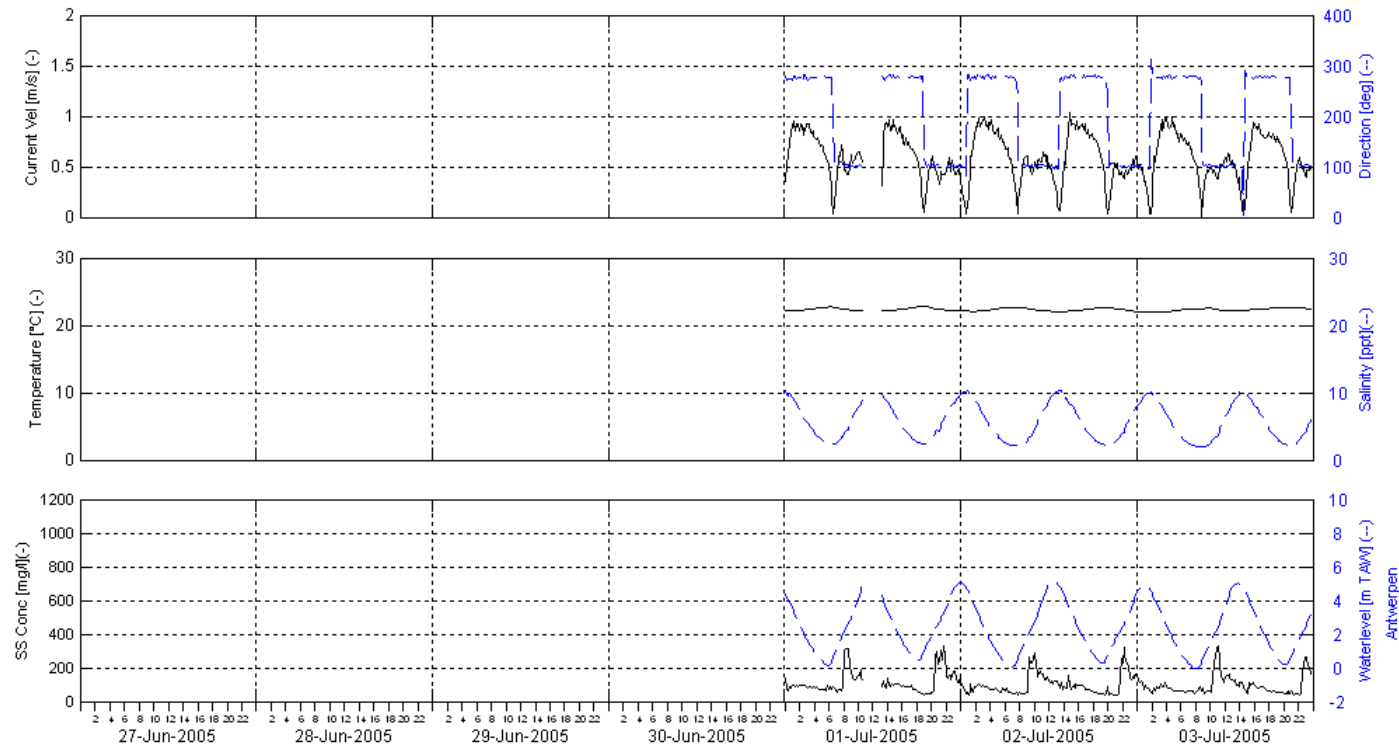


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 27 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

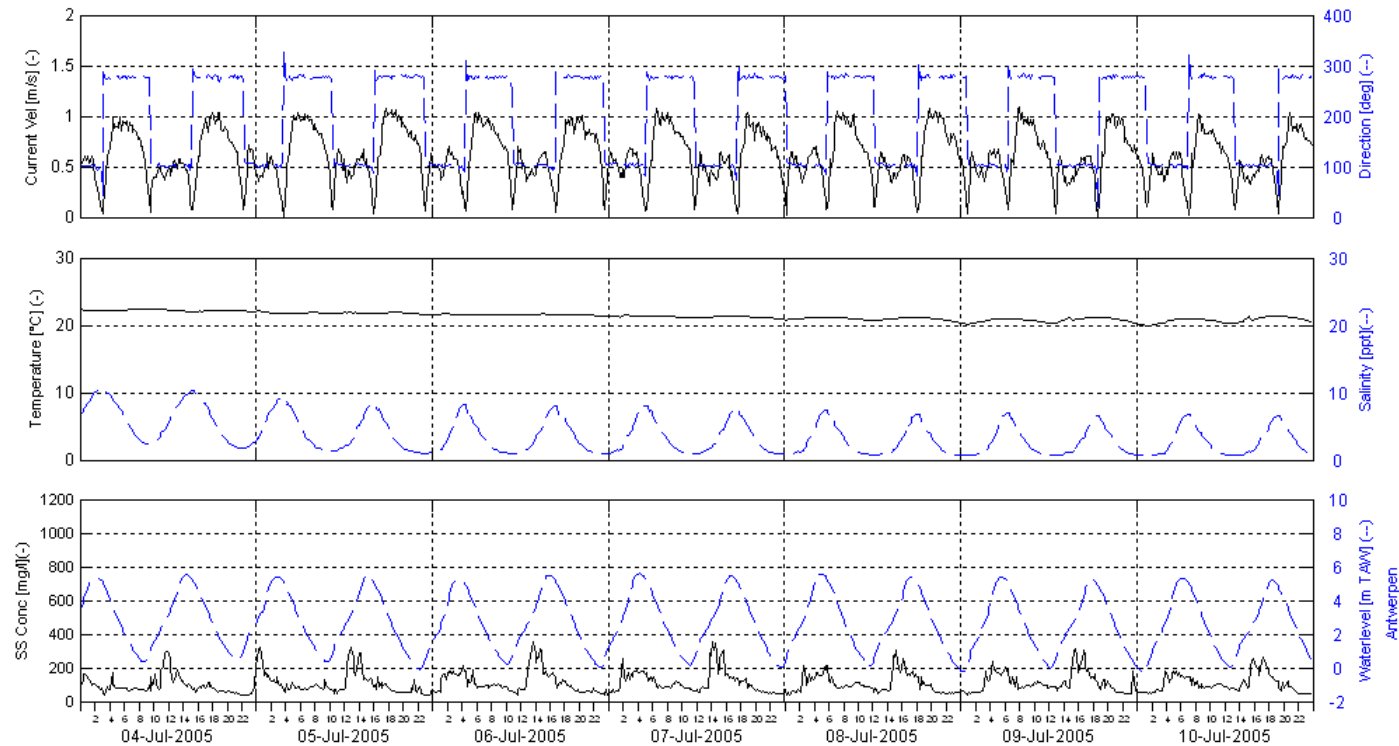


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 28 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

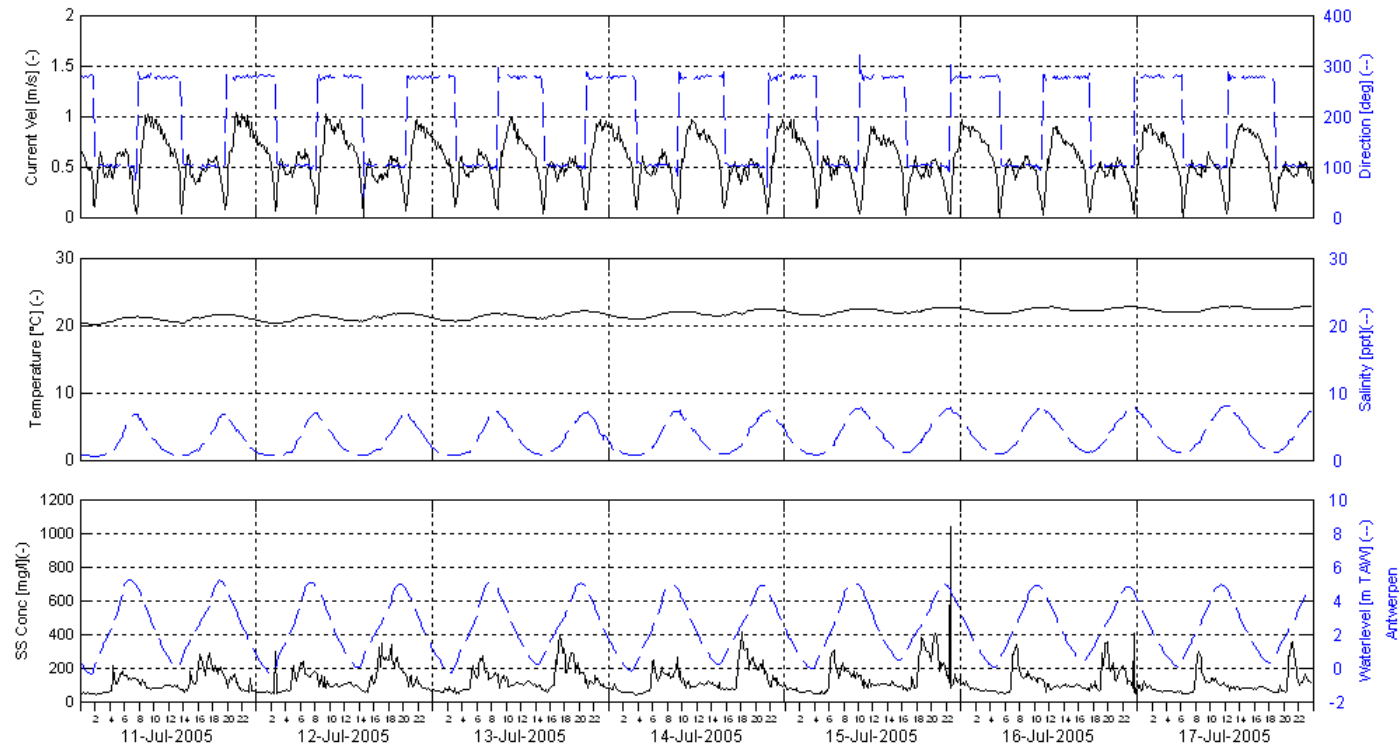


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 29 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

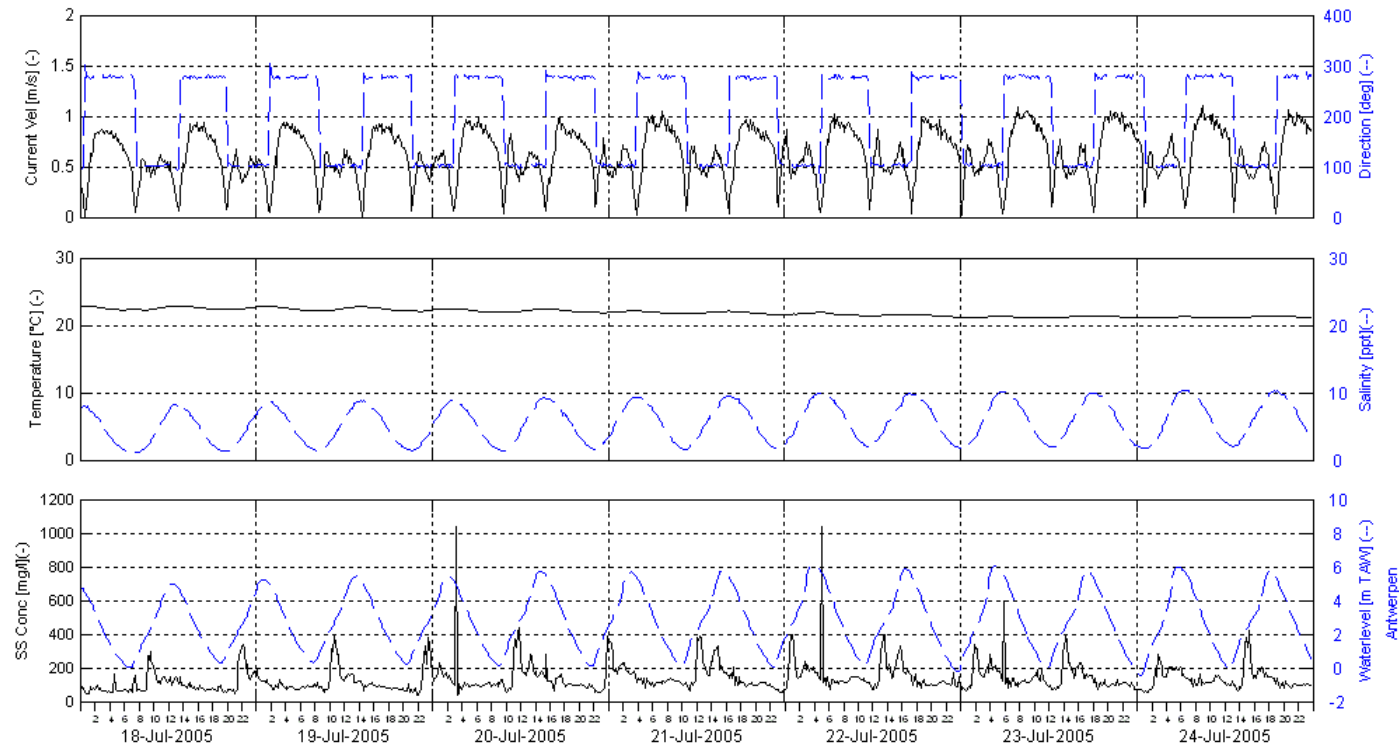


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 30 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:



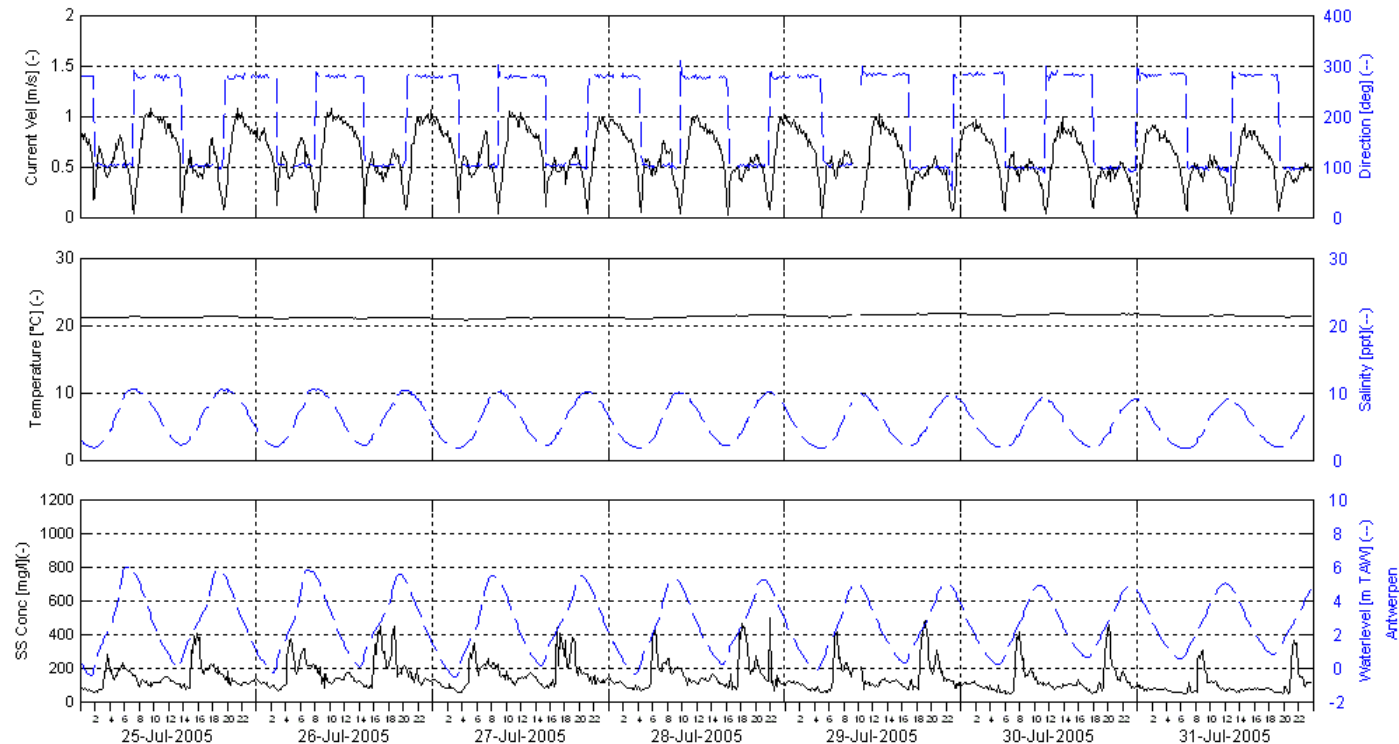
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 31 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

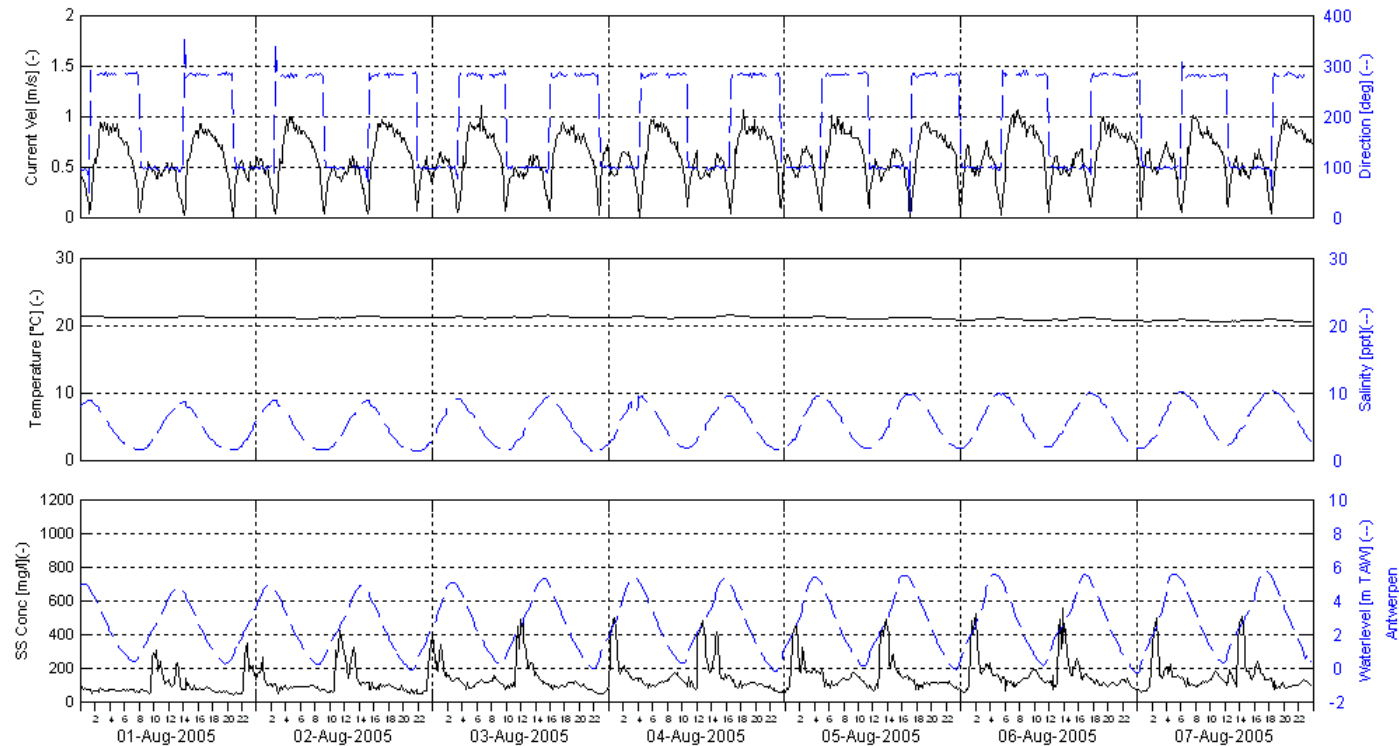


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 32 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

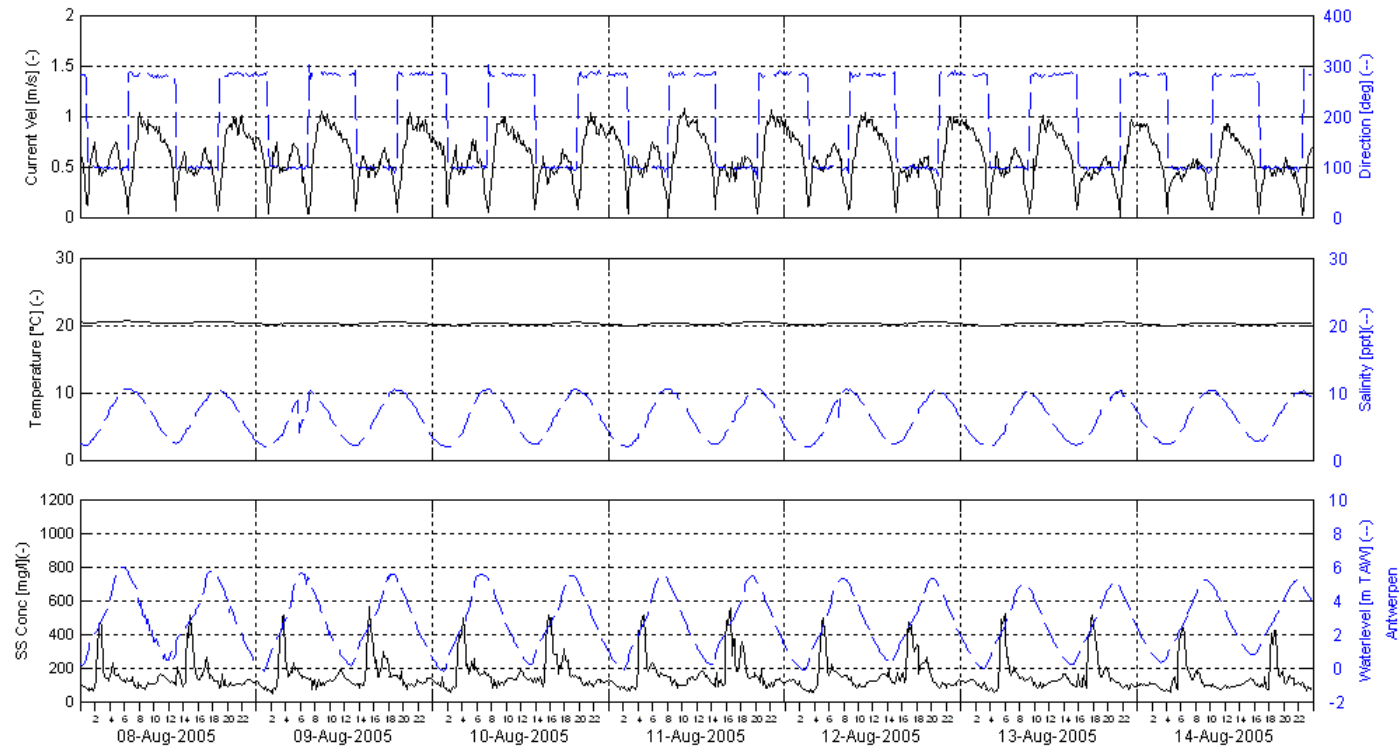


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 33 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

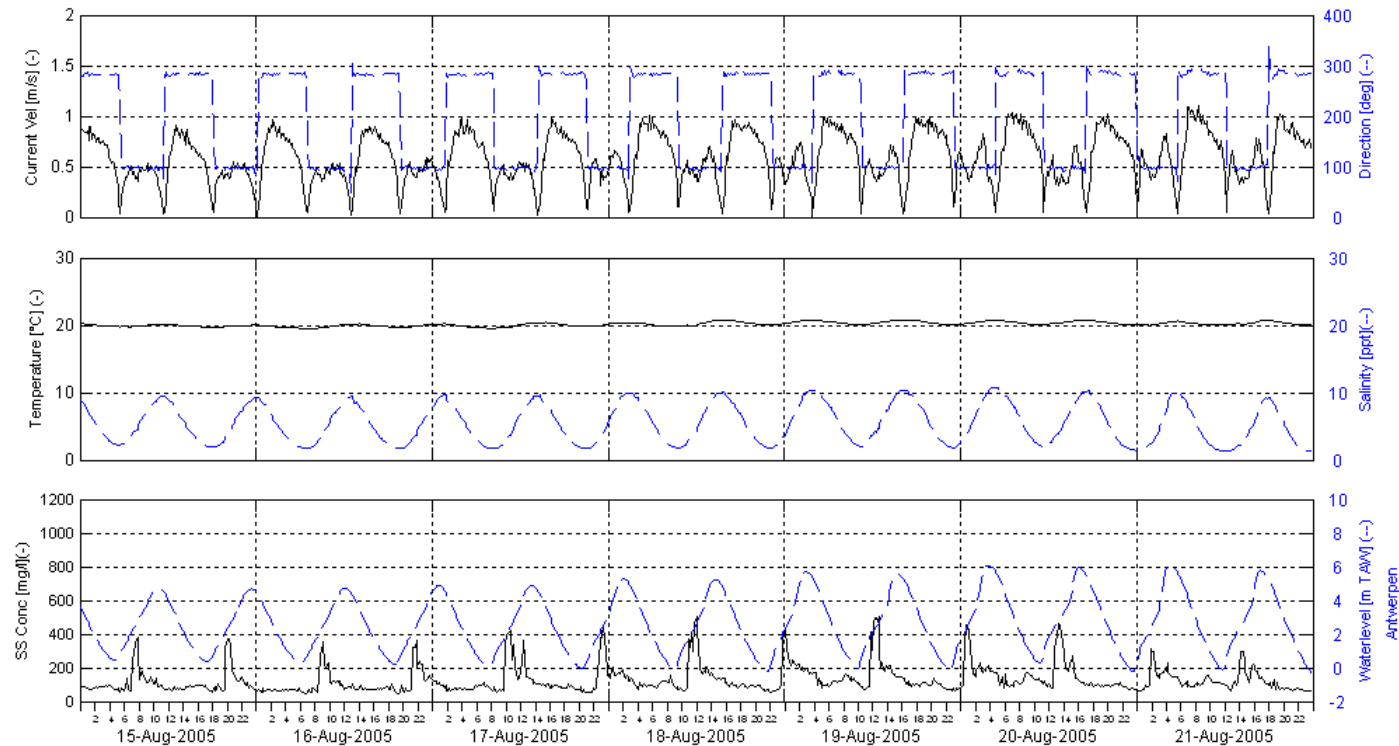


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 34 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

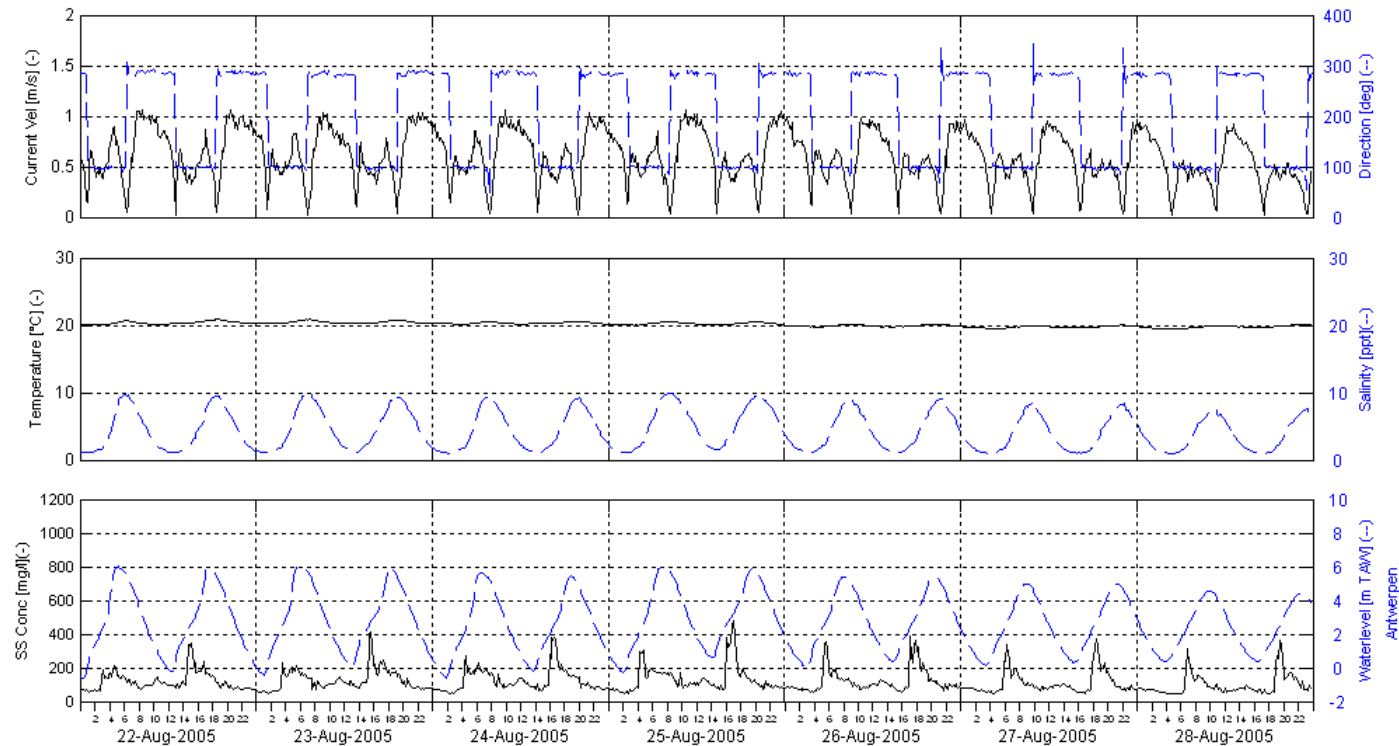


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 35 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

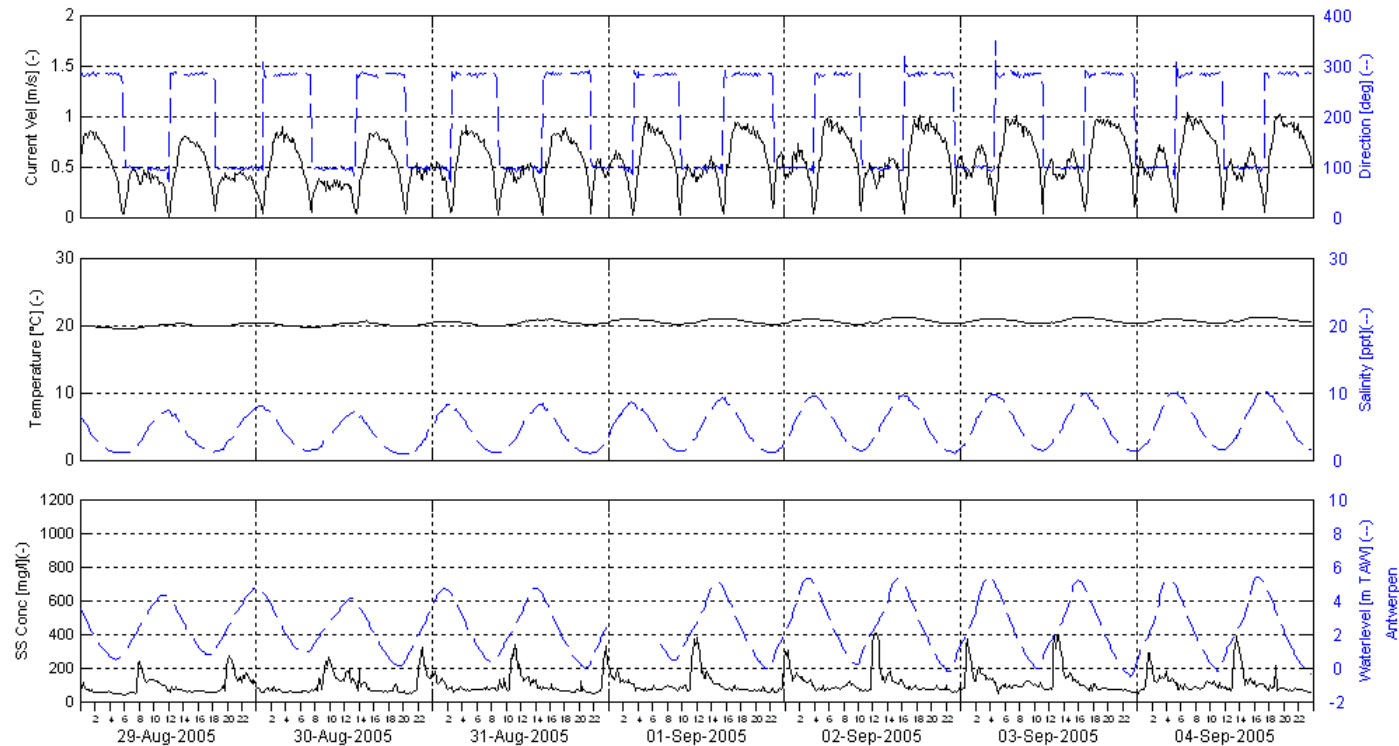


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 36 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

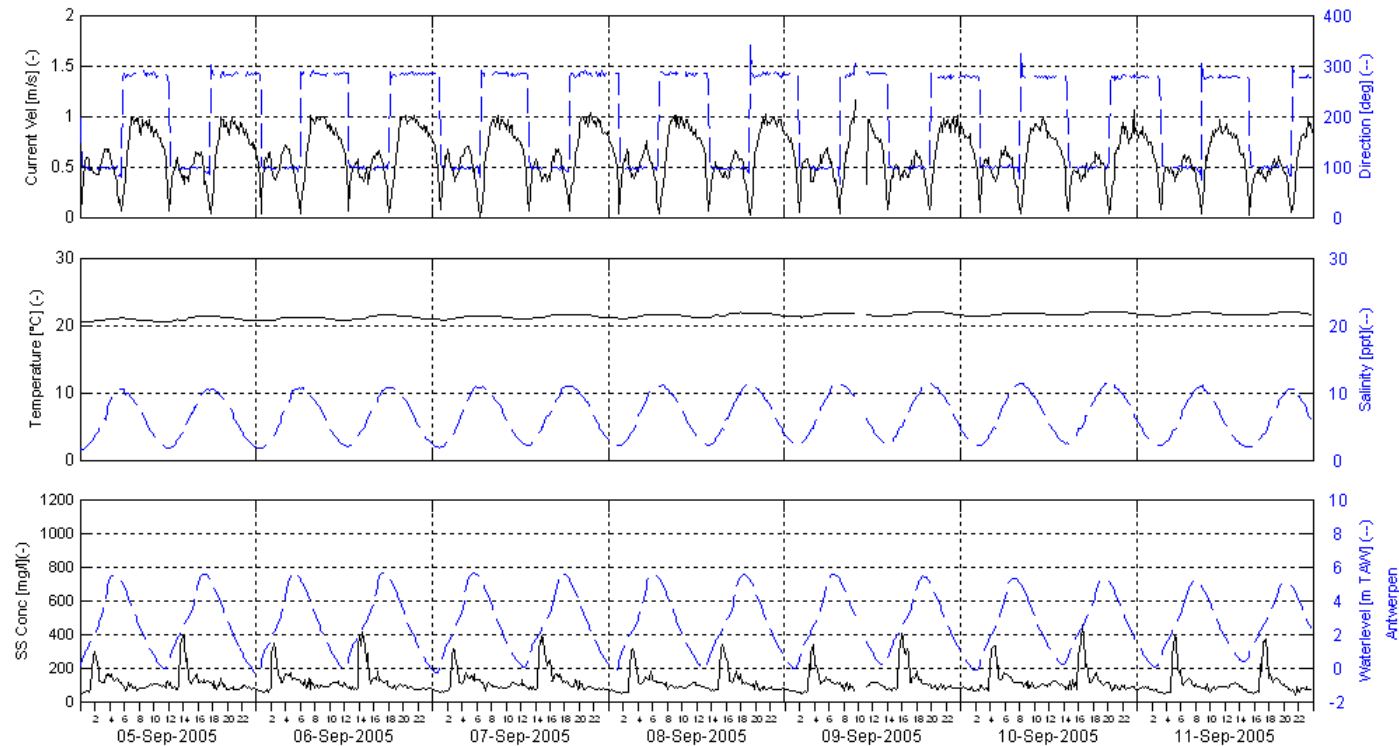


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 37 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

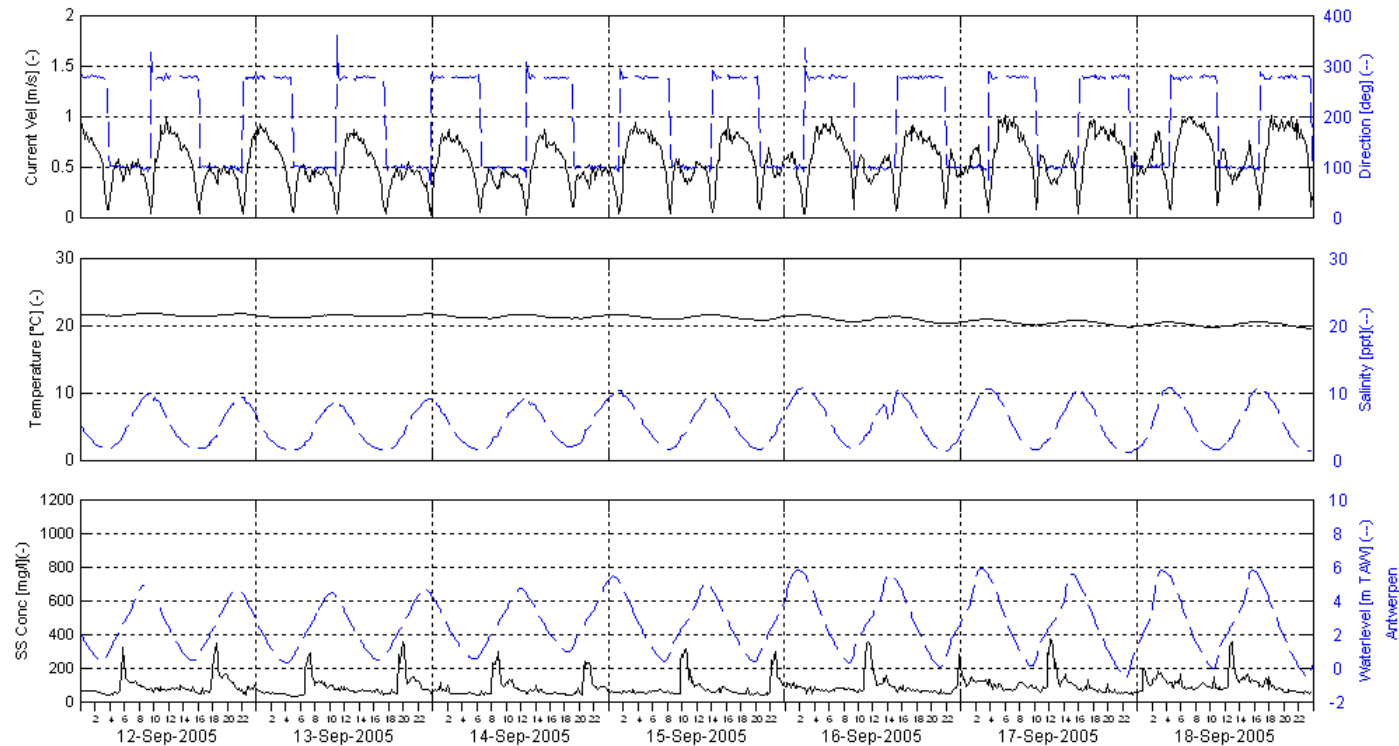


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 38 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:



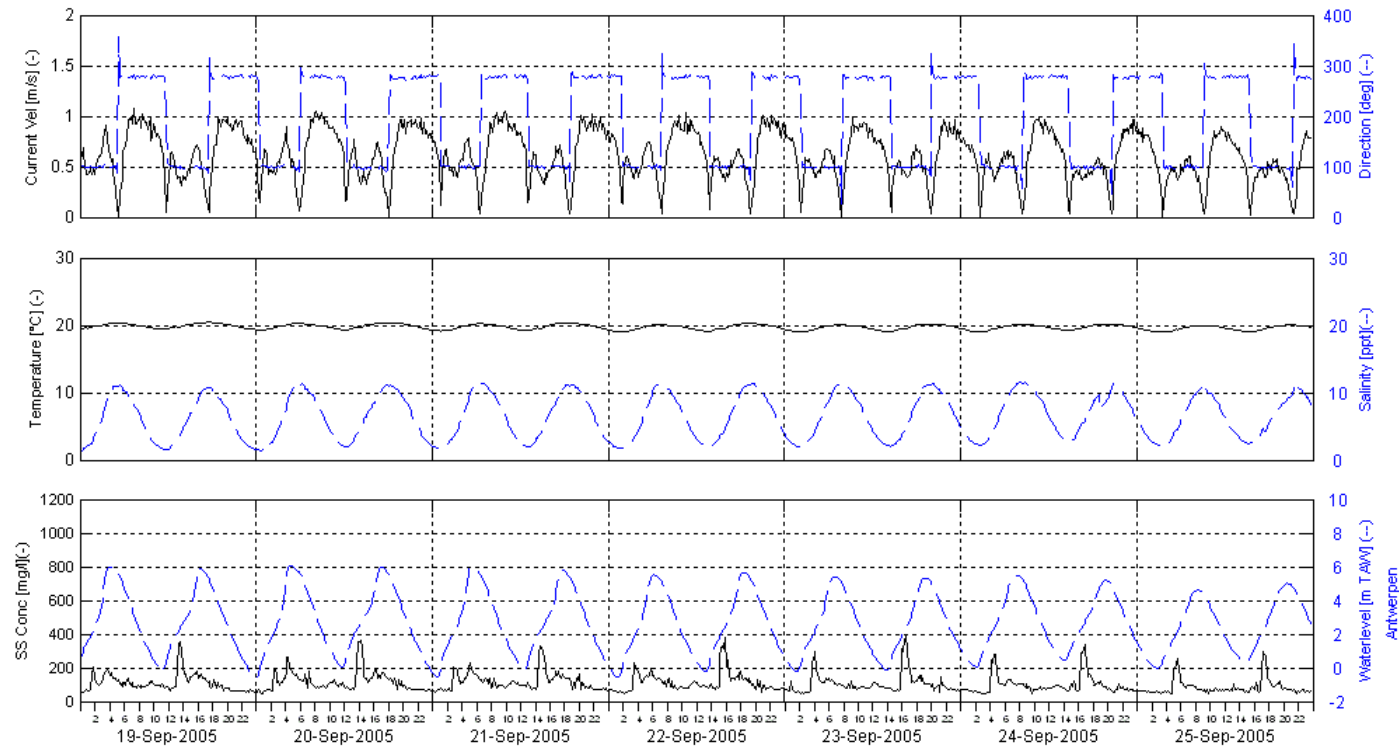
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 39 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

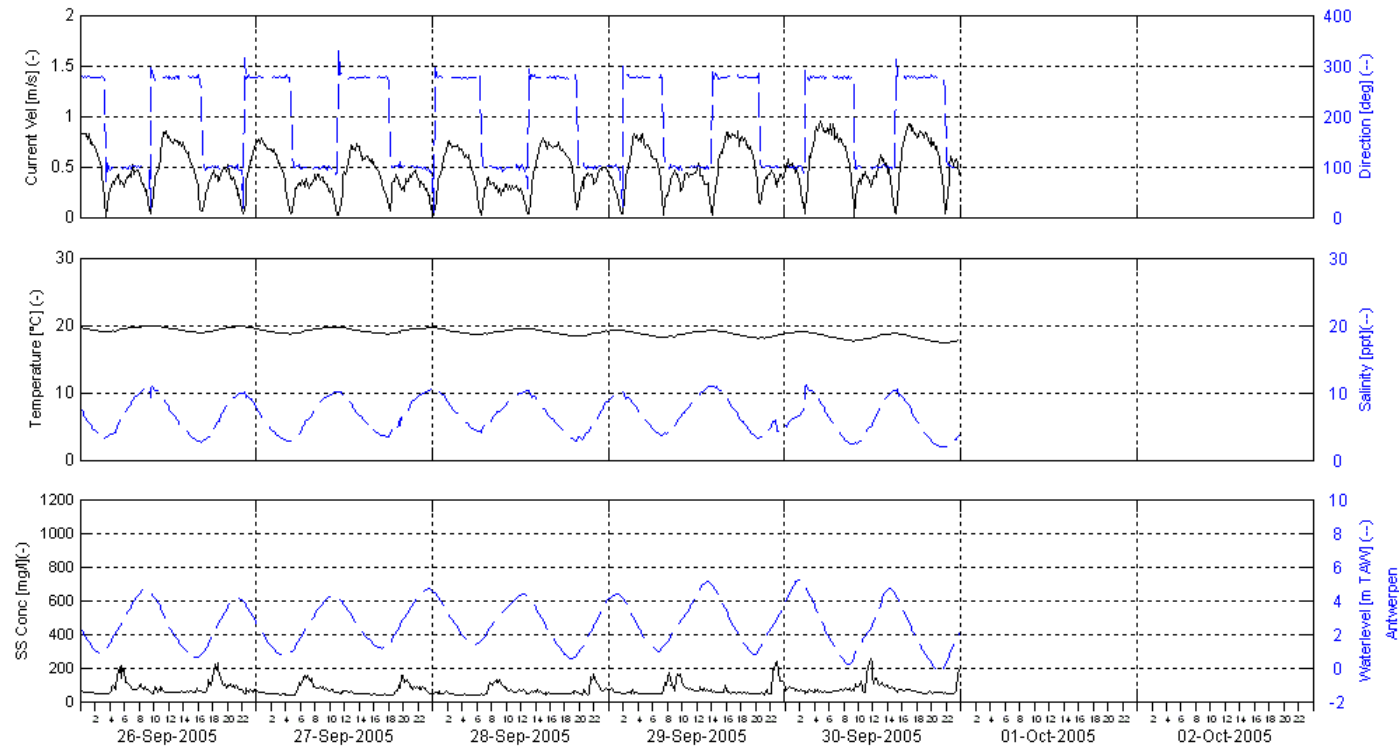


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel 2m above bottom (-9m TAW)

Data processed by:

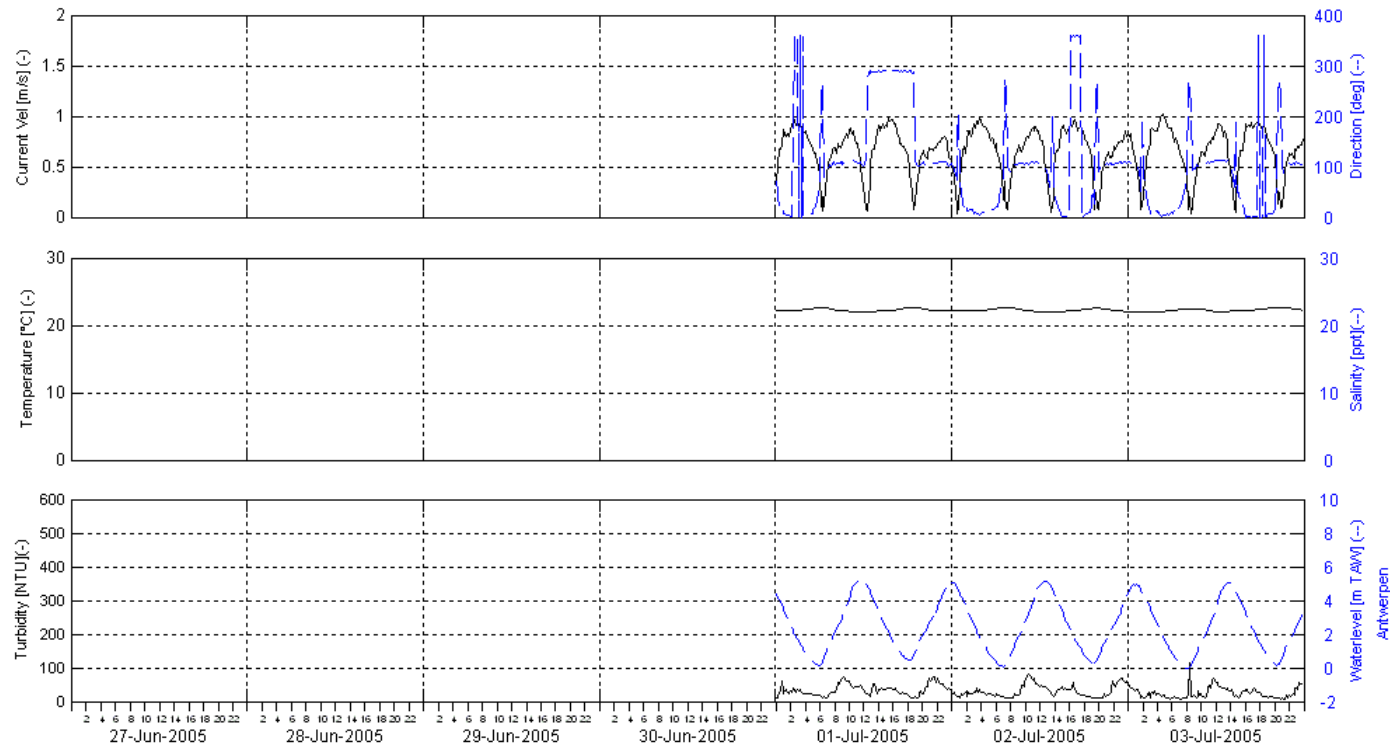


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 27 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

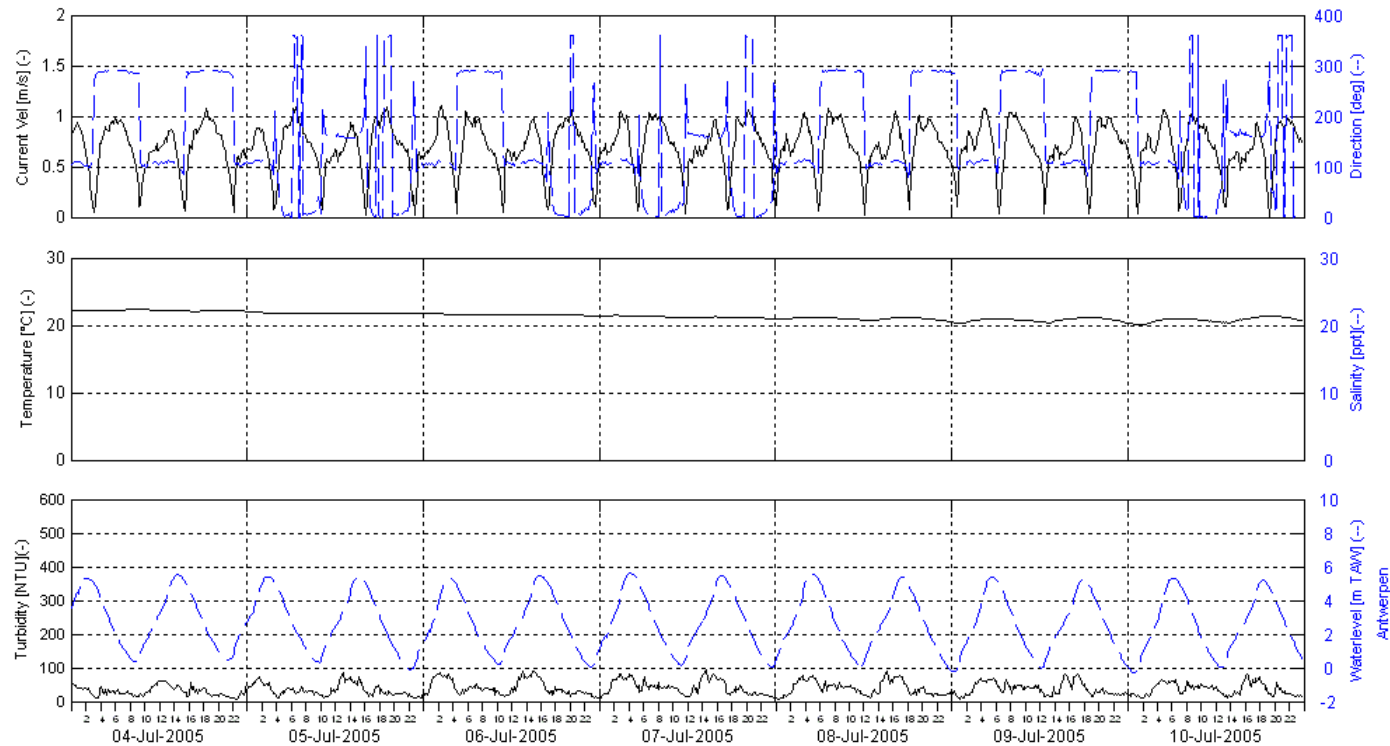


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 28 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

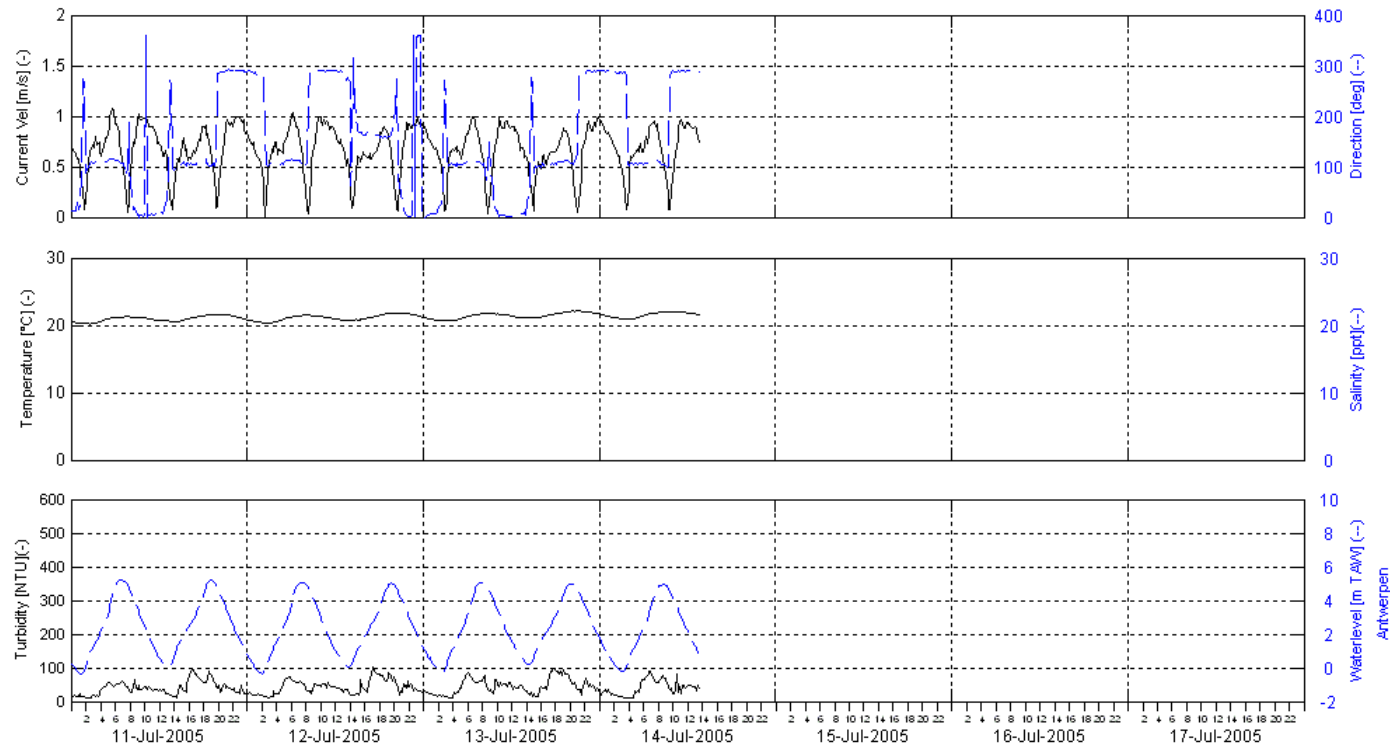


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 29 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

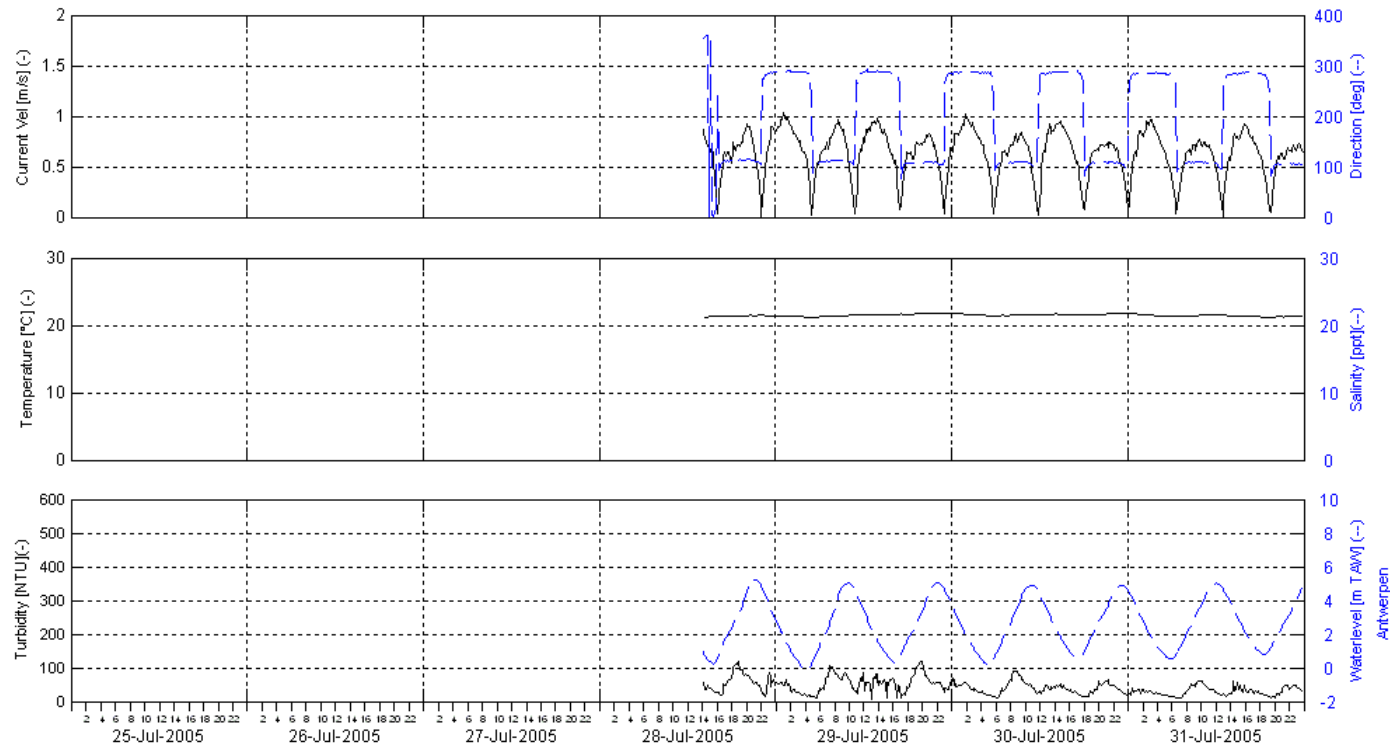


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 31 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

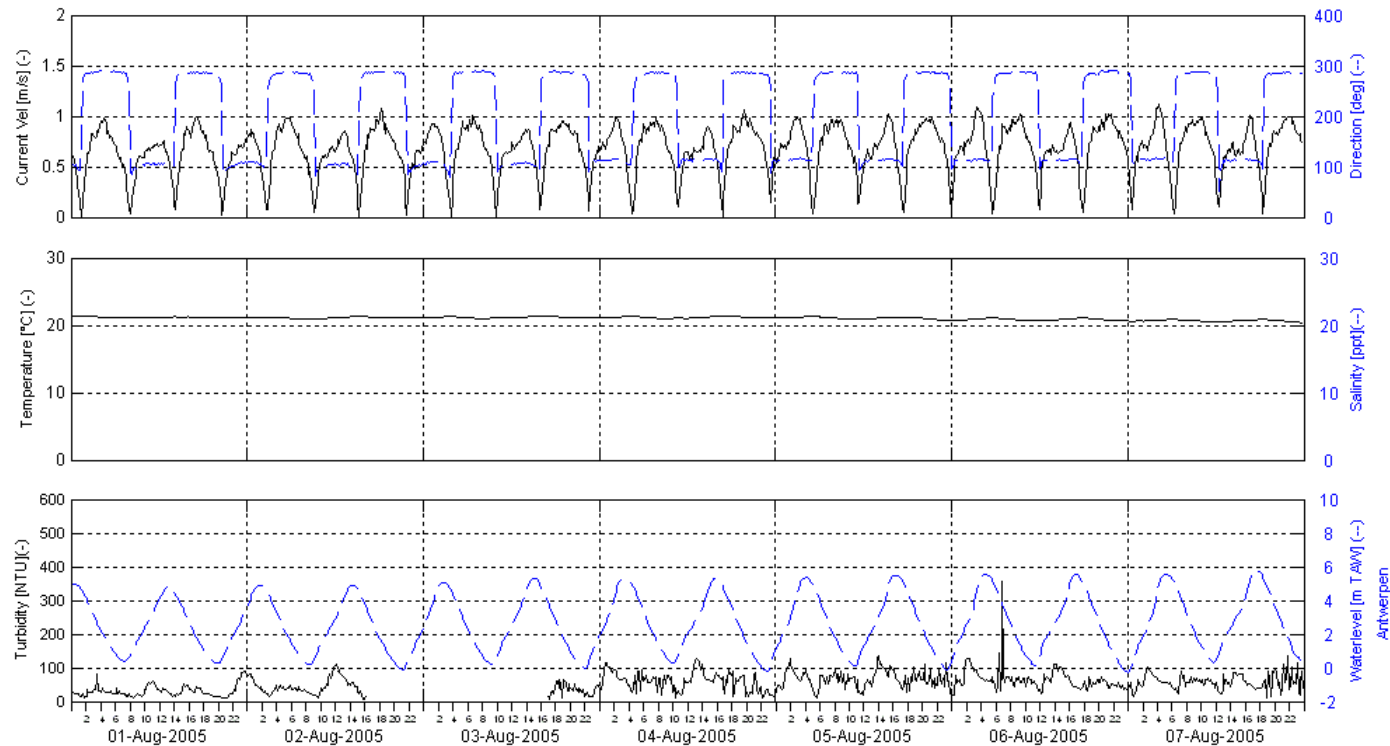


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 32 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

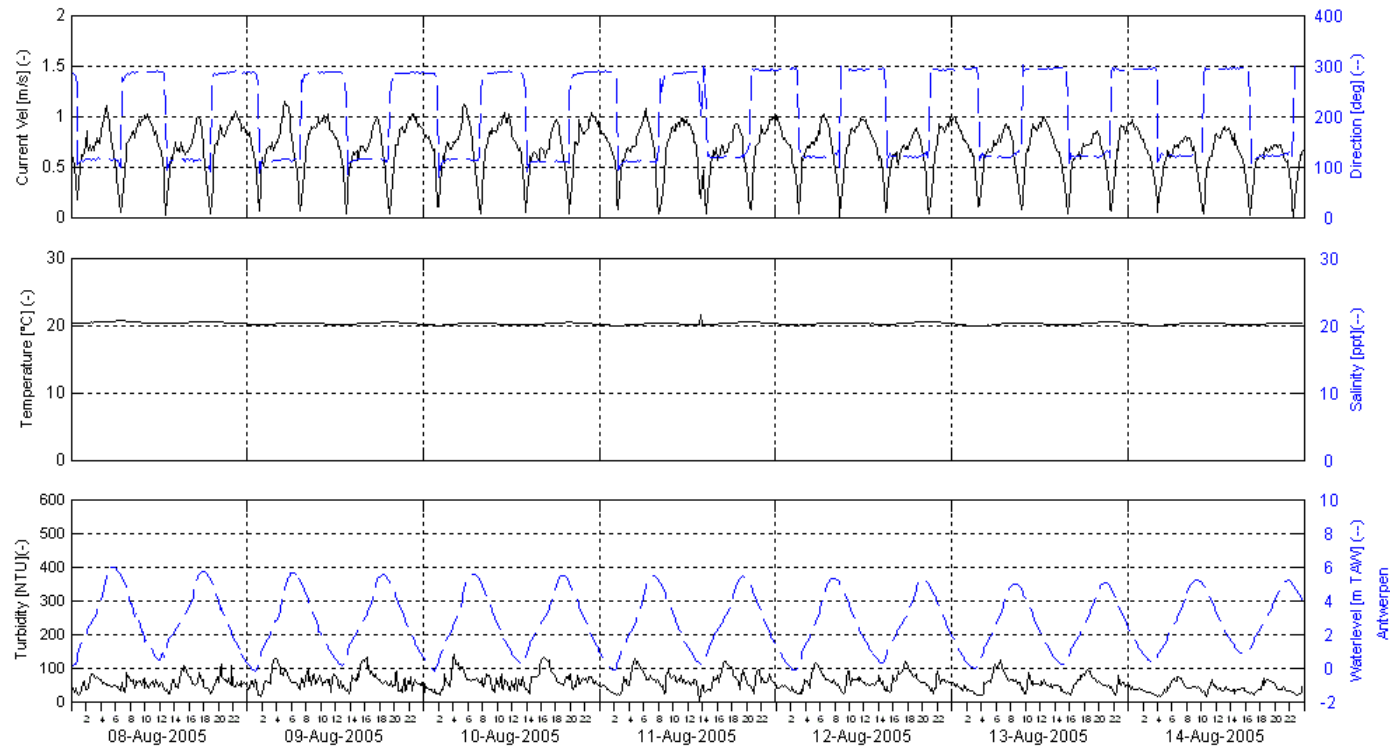


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 33 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:



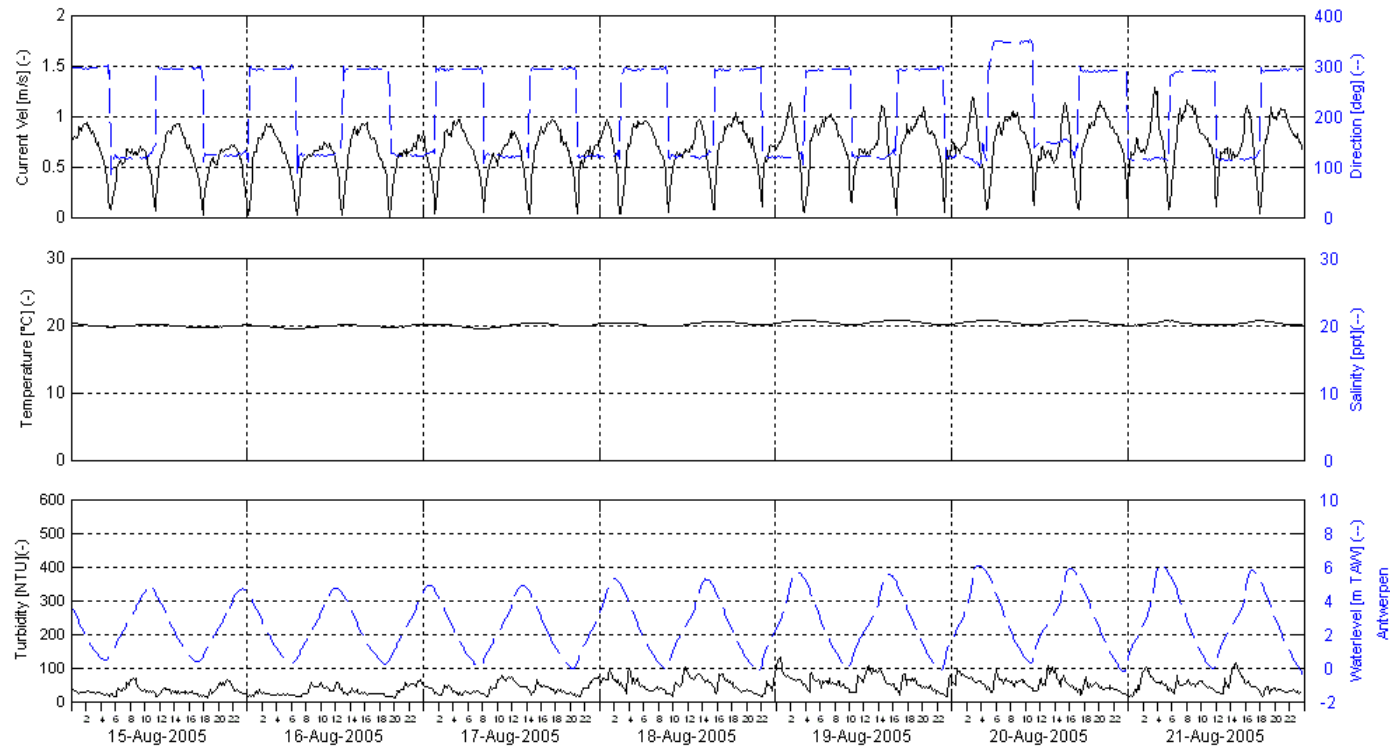
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 34 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

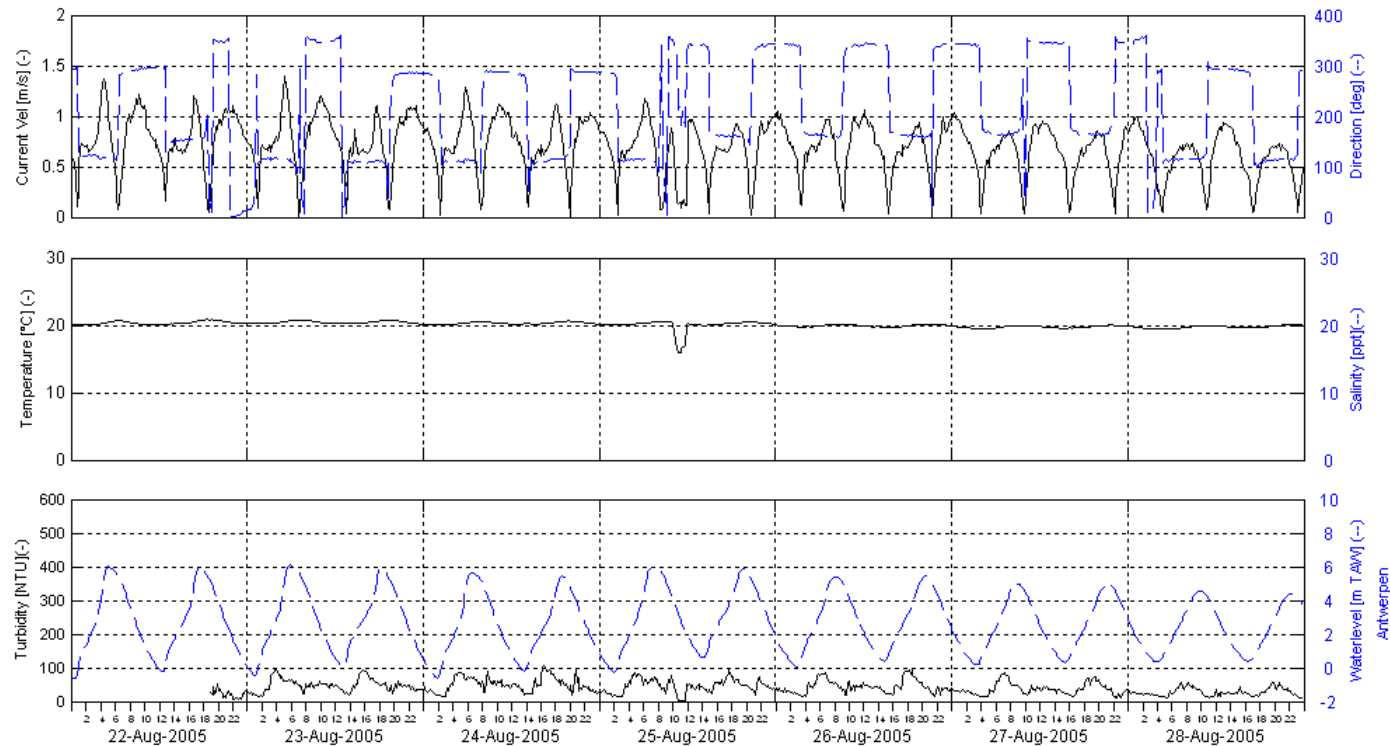


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 35 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

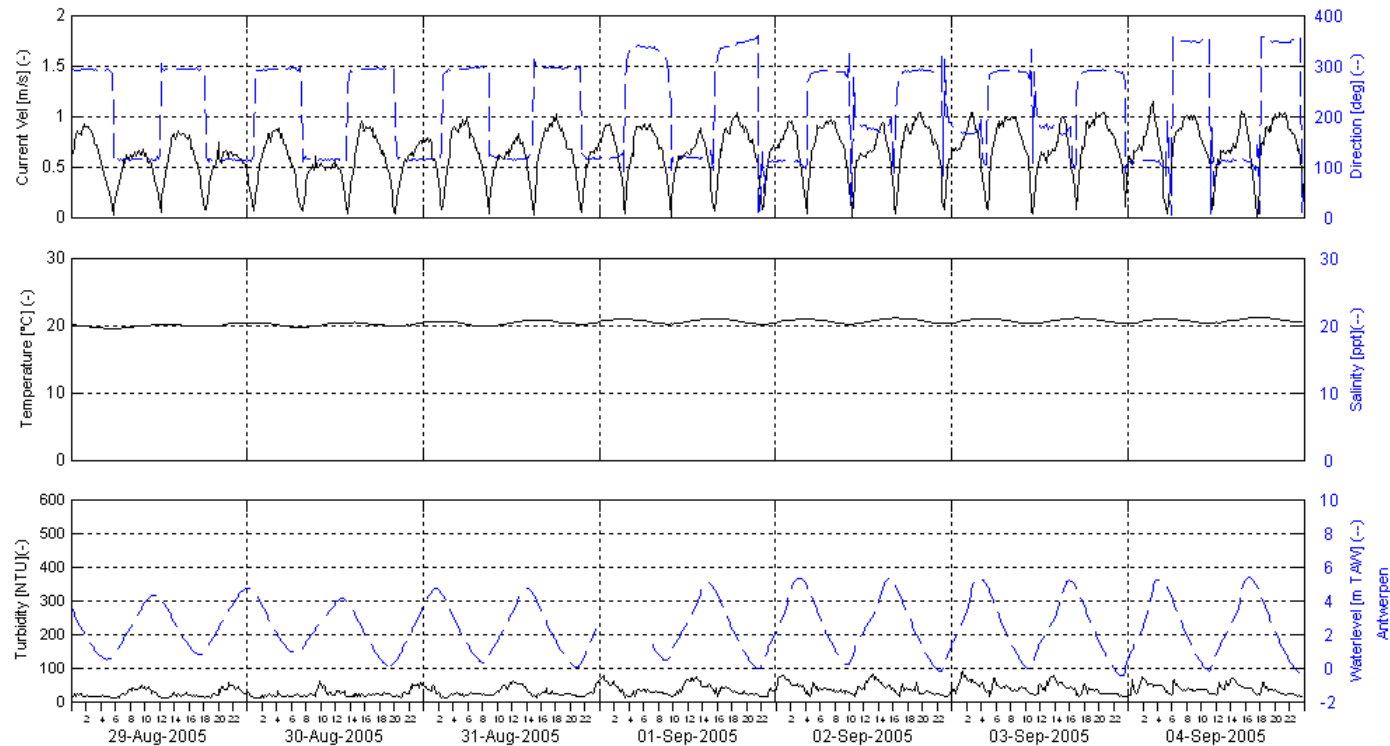


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 36 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

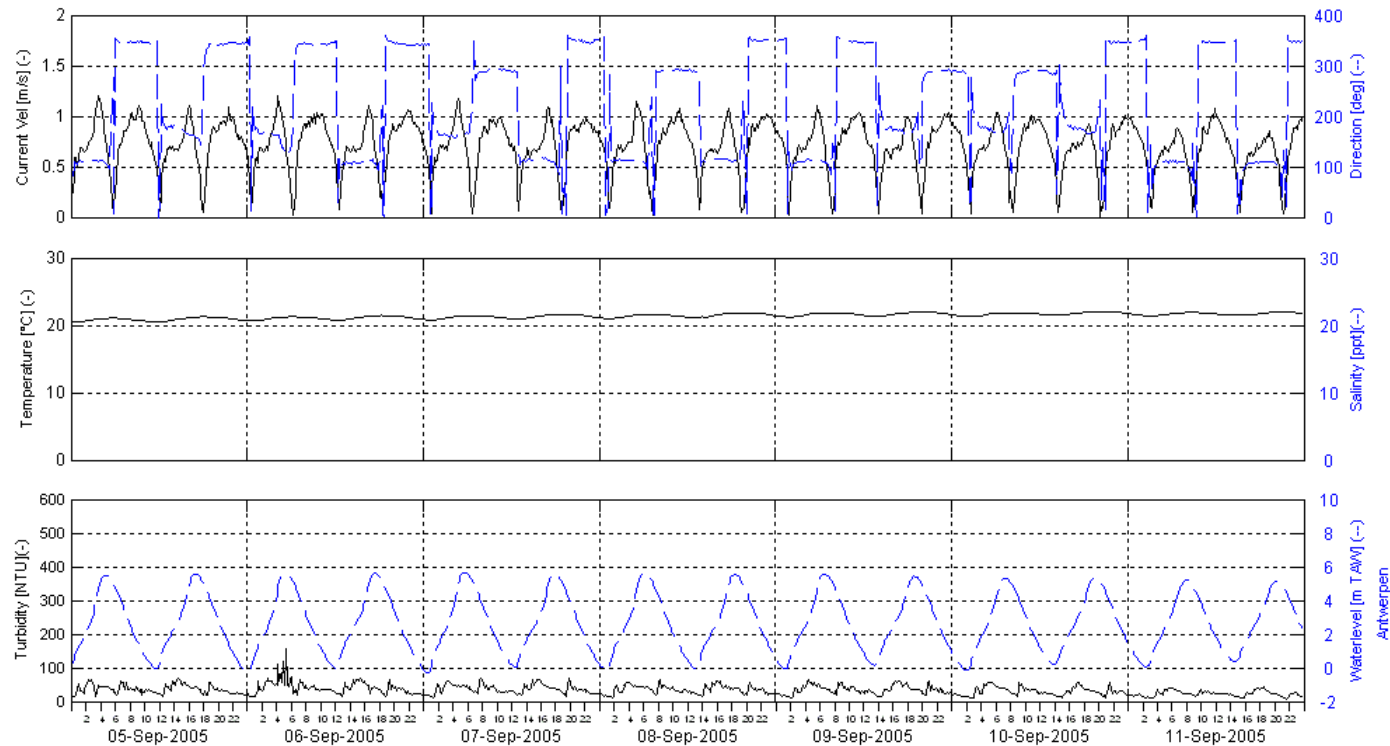


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 37 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

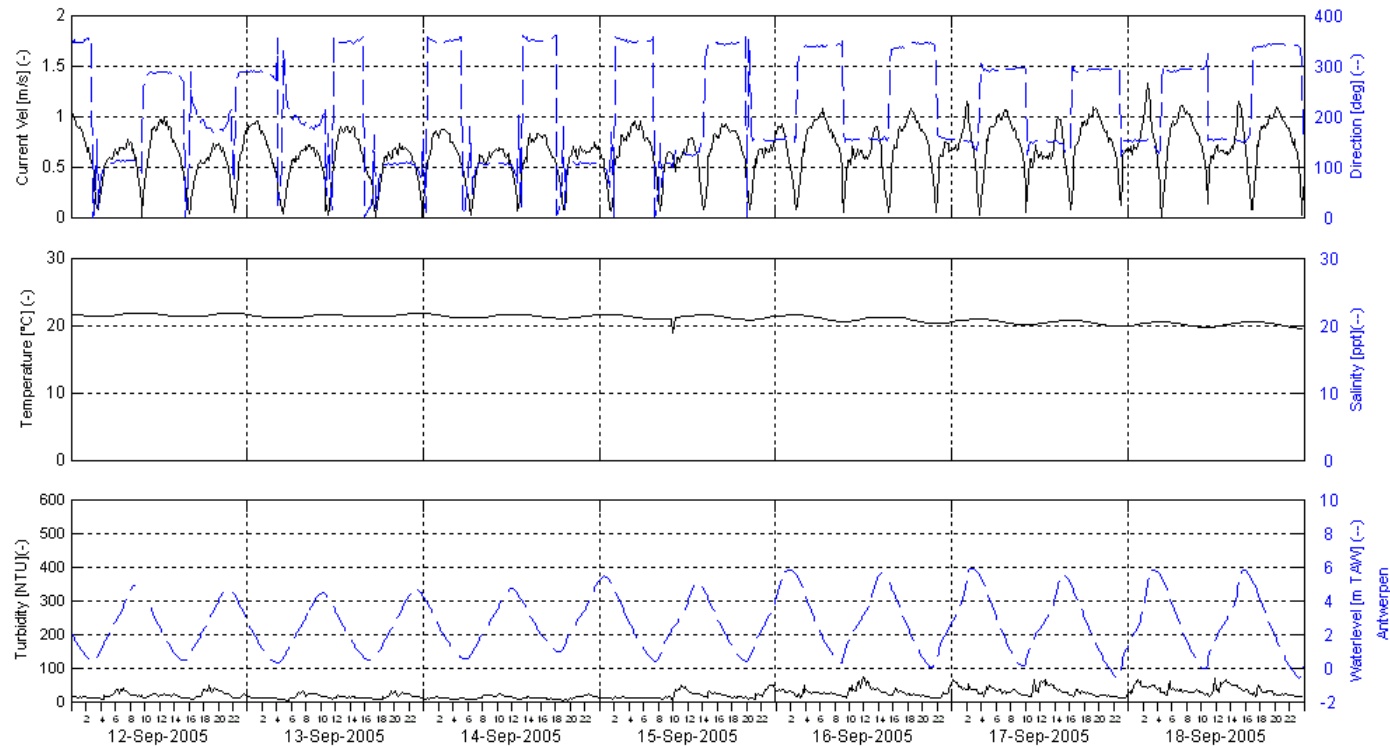


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 38 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

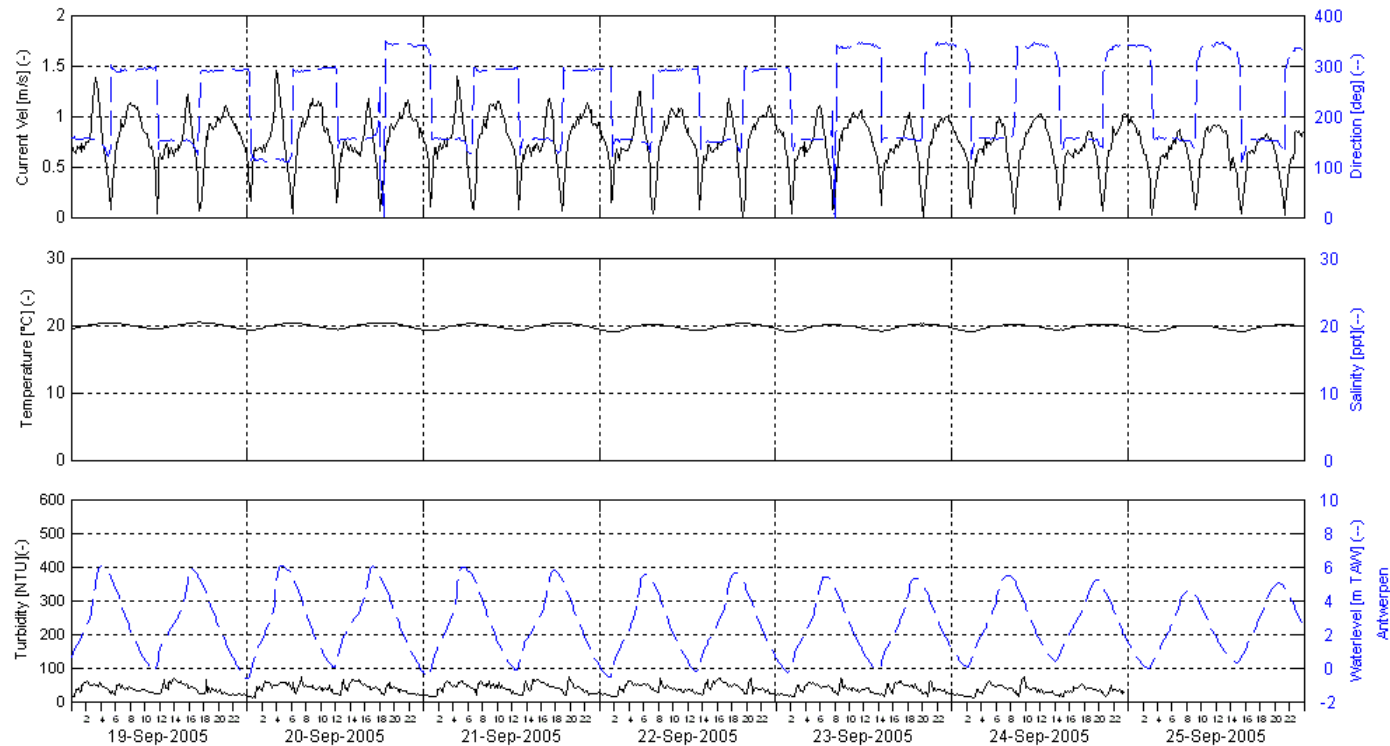


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 39 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

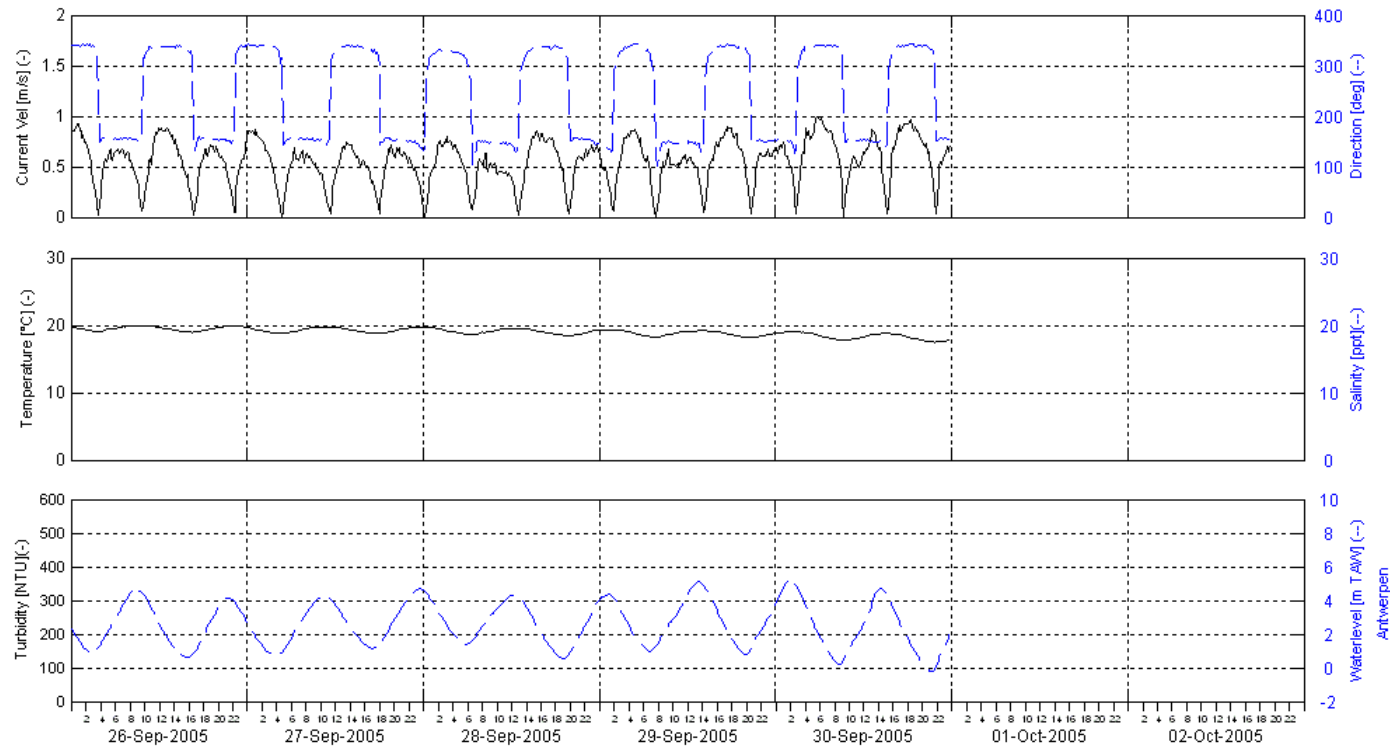


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

Data processed by:

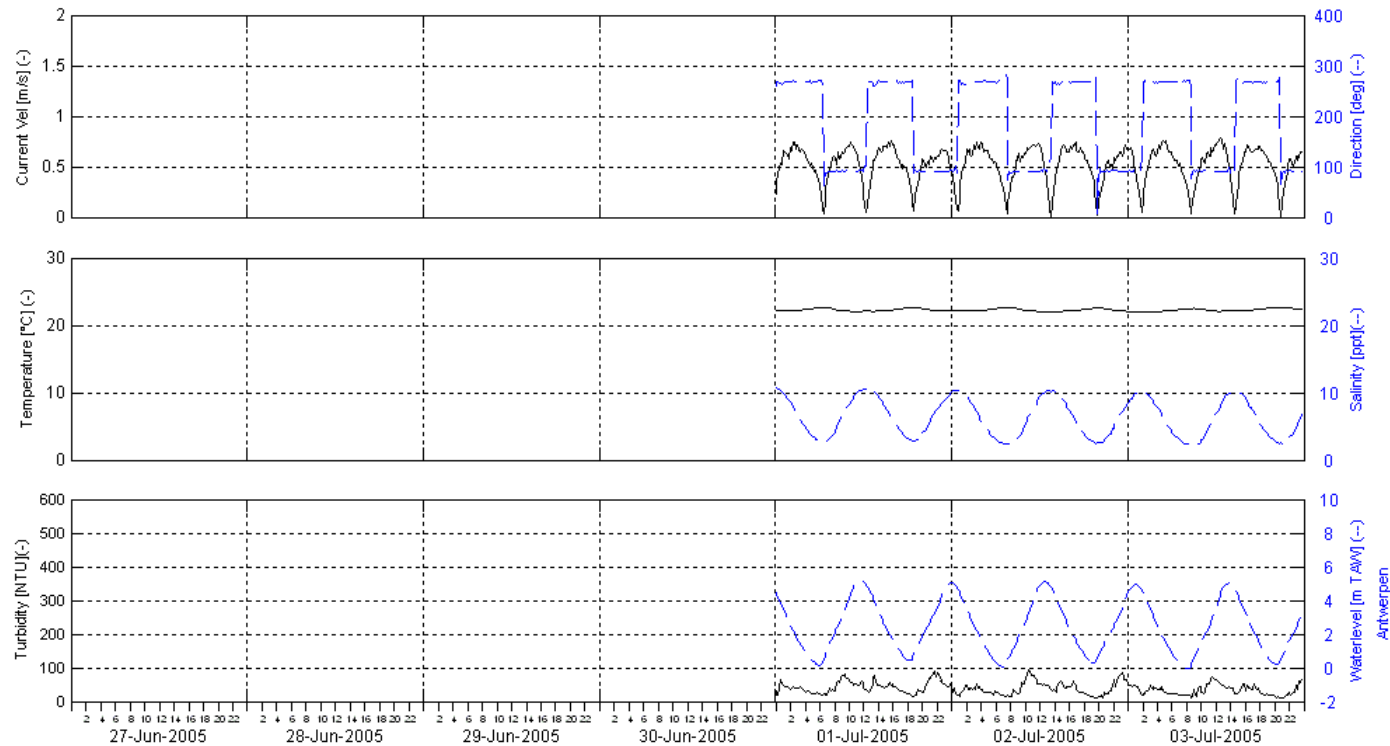


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 27 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:



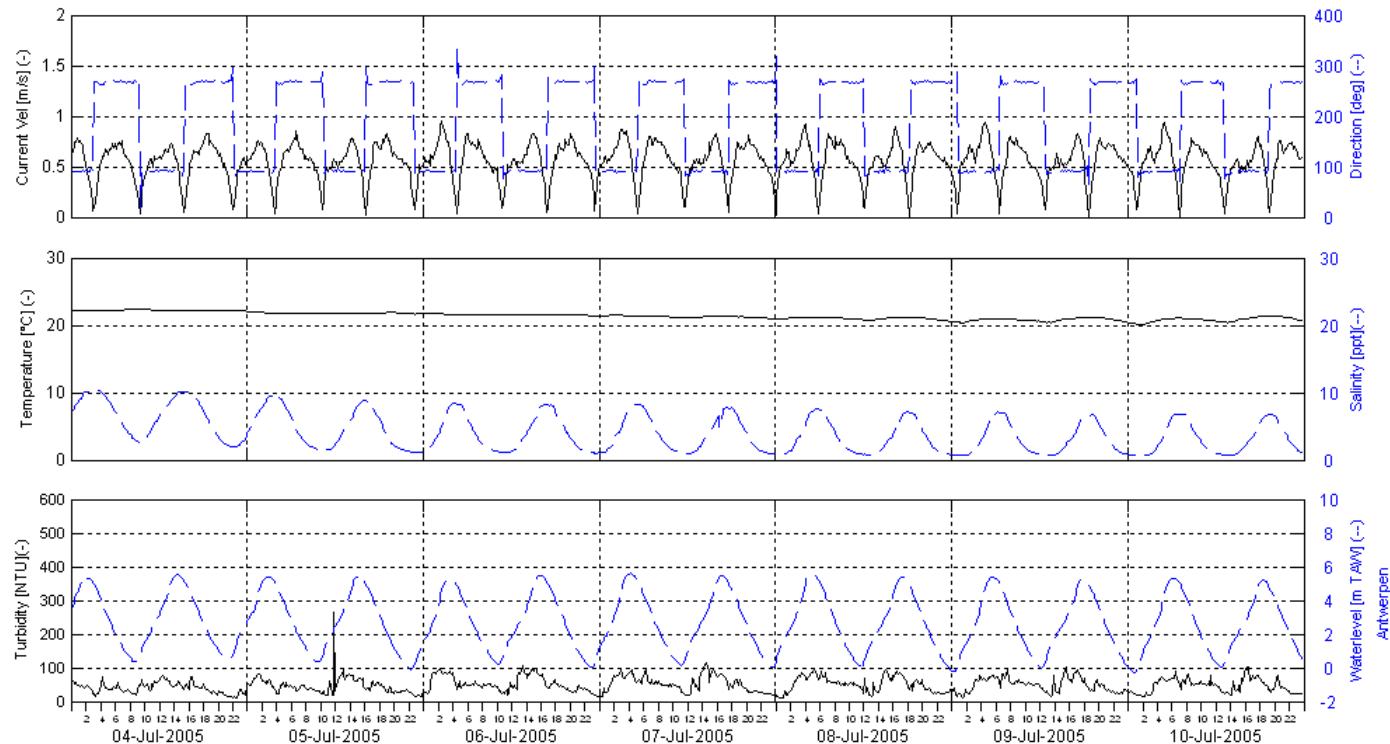
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 28 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:

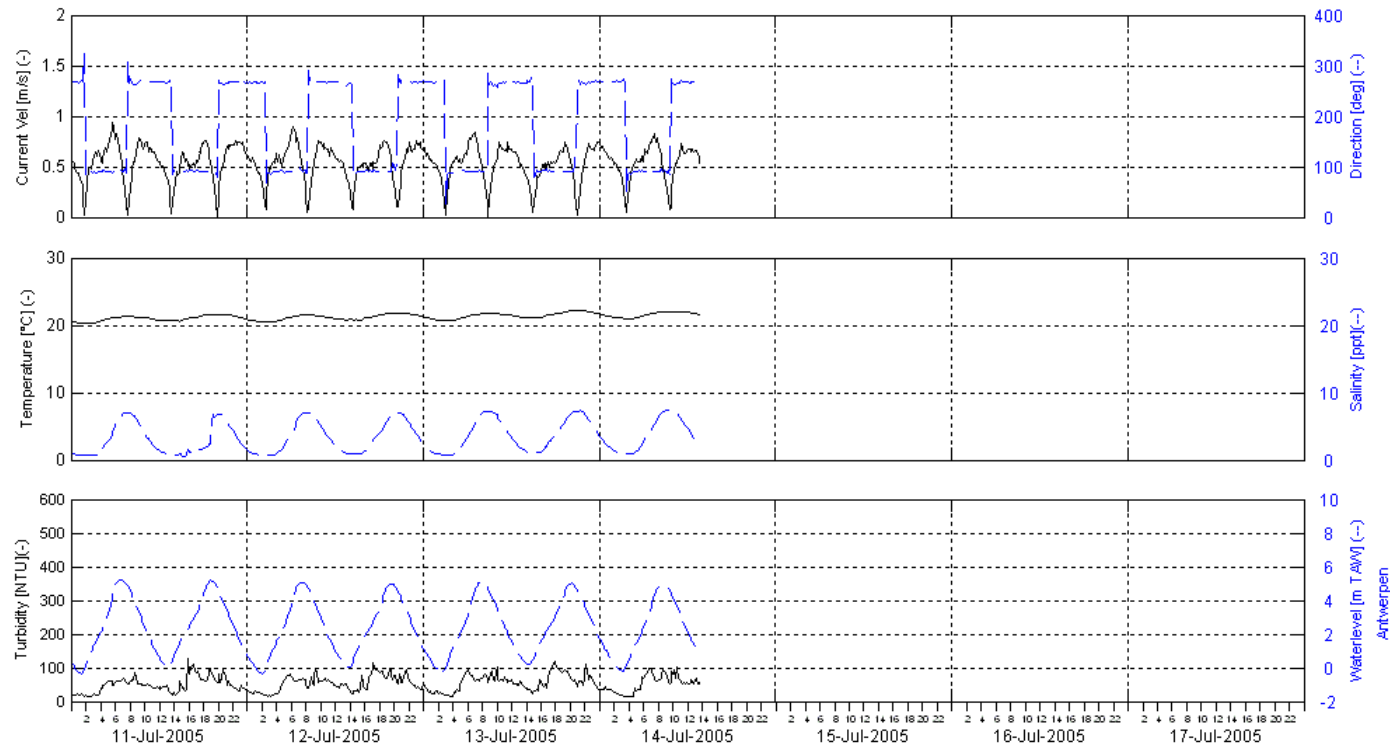


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 29 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:

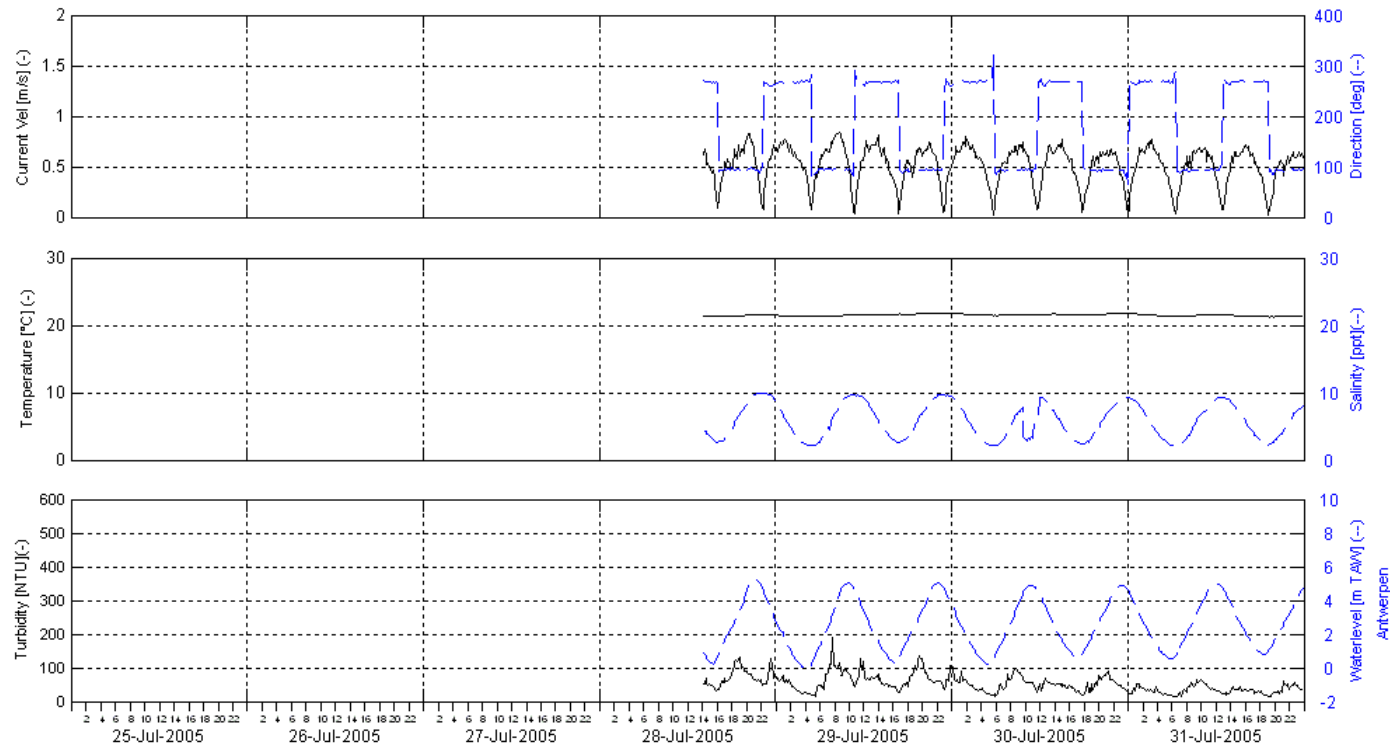


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 31 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:

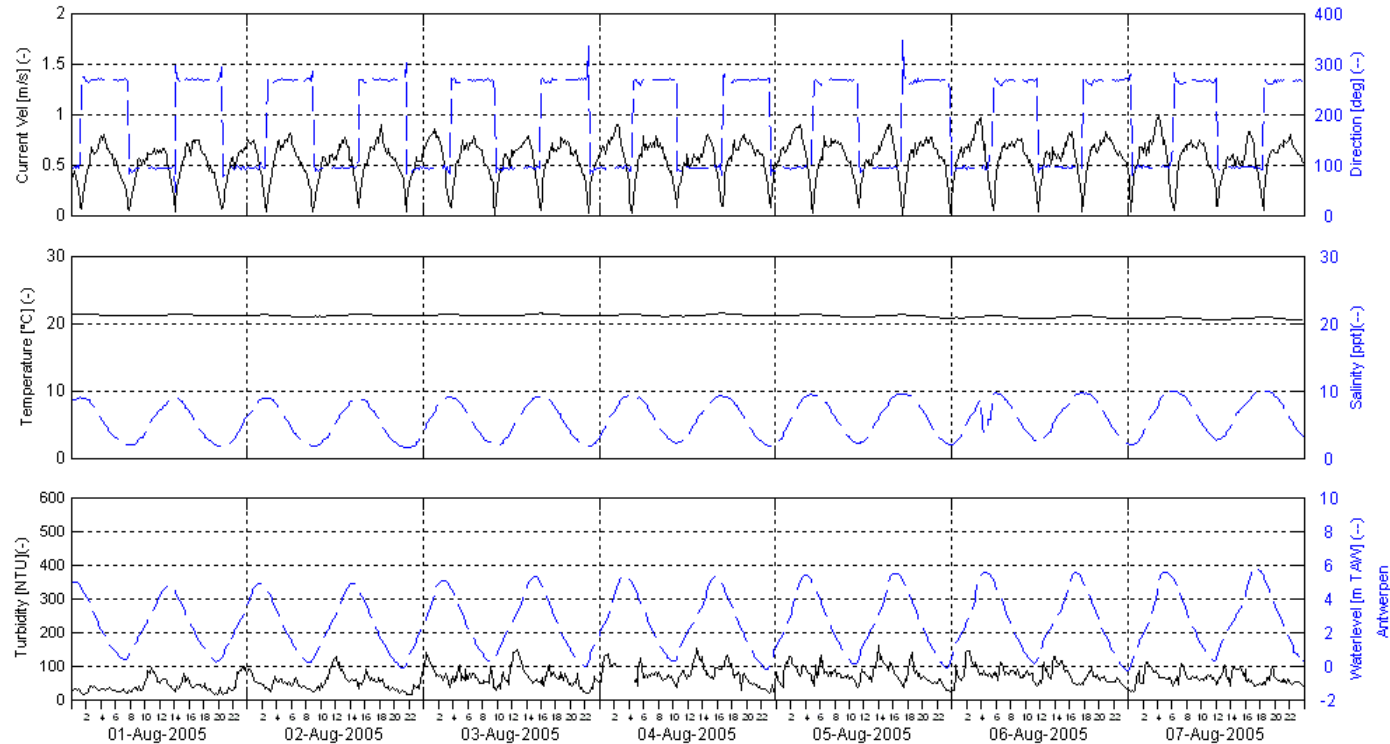


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 32 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:

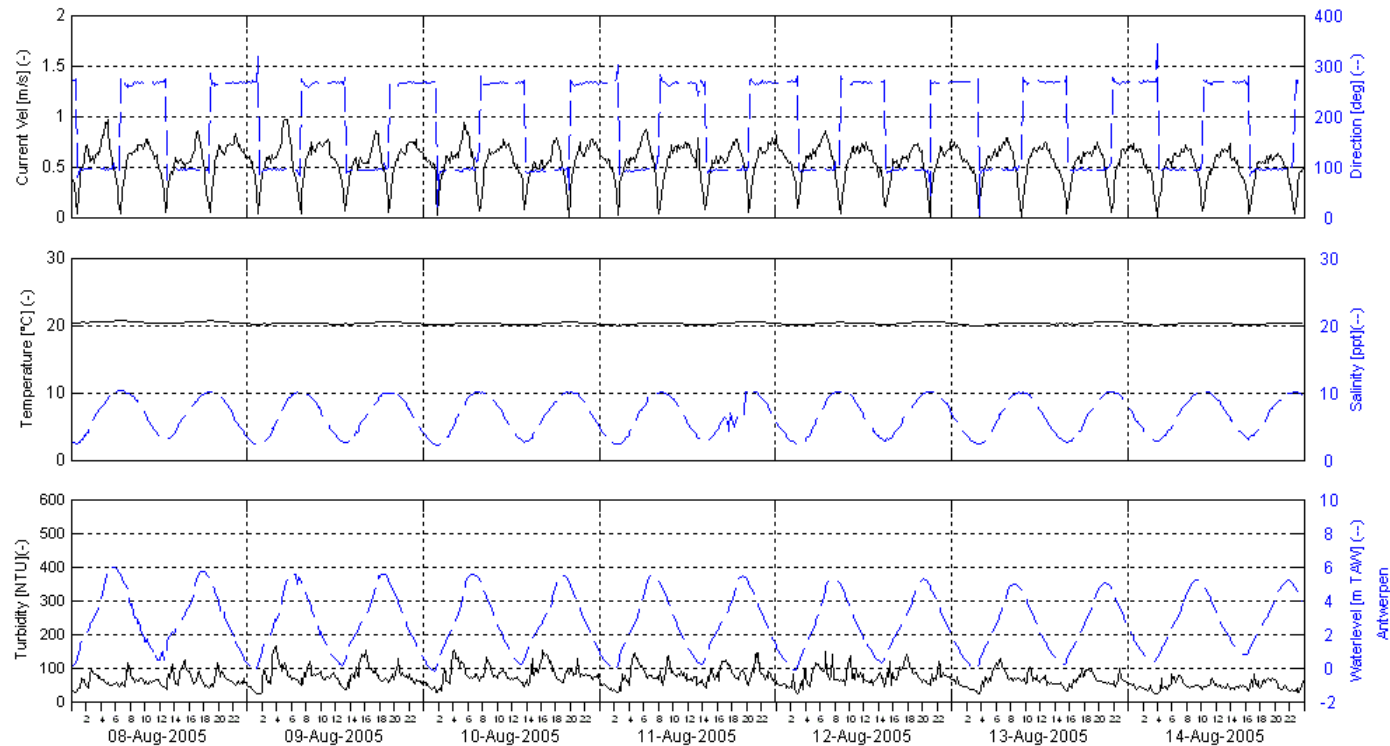


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 33 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:

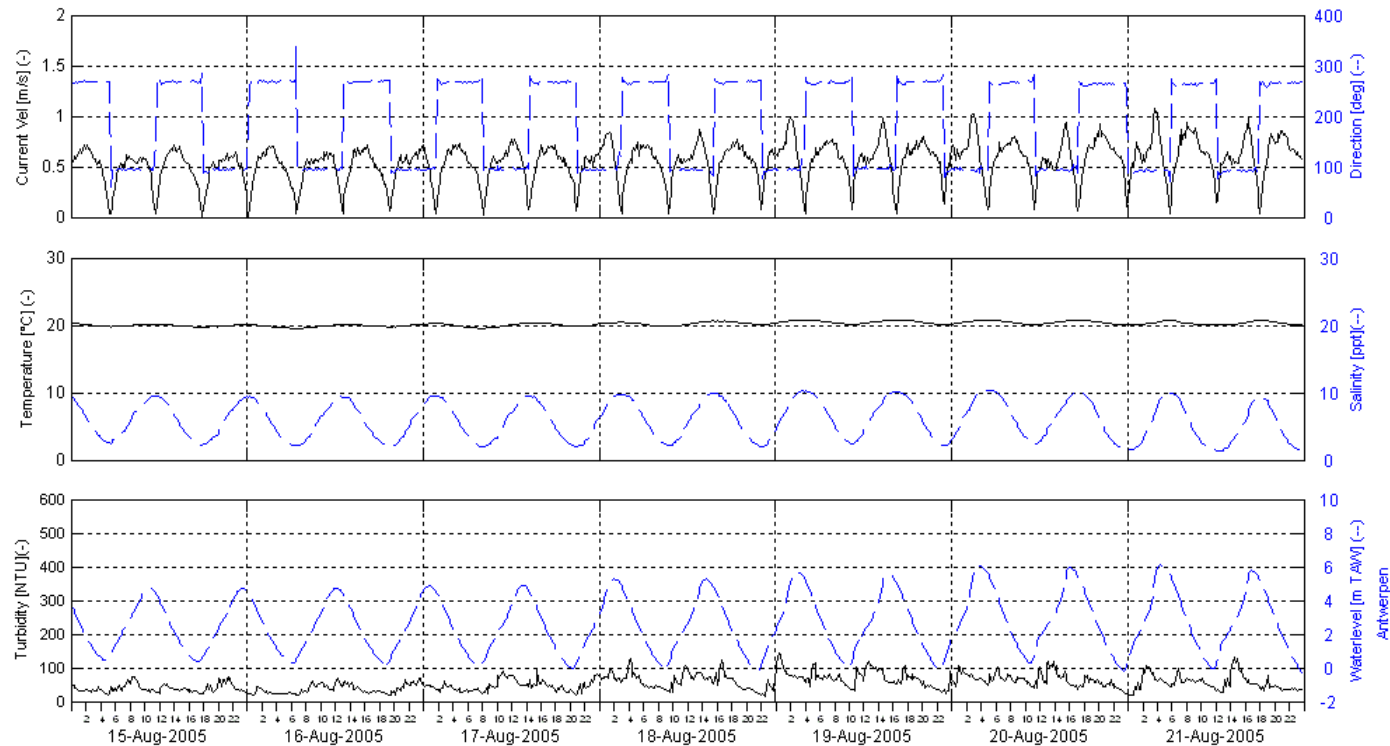


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 34 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:

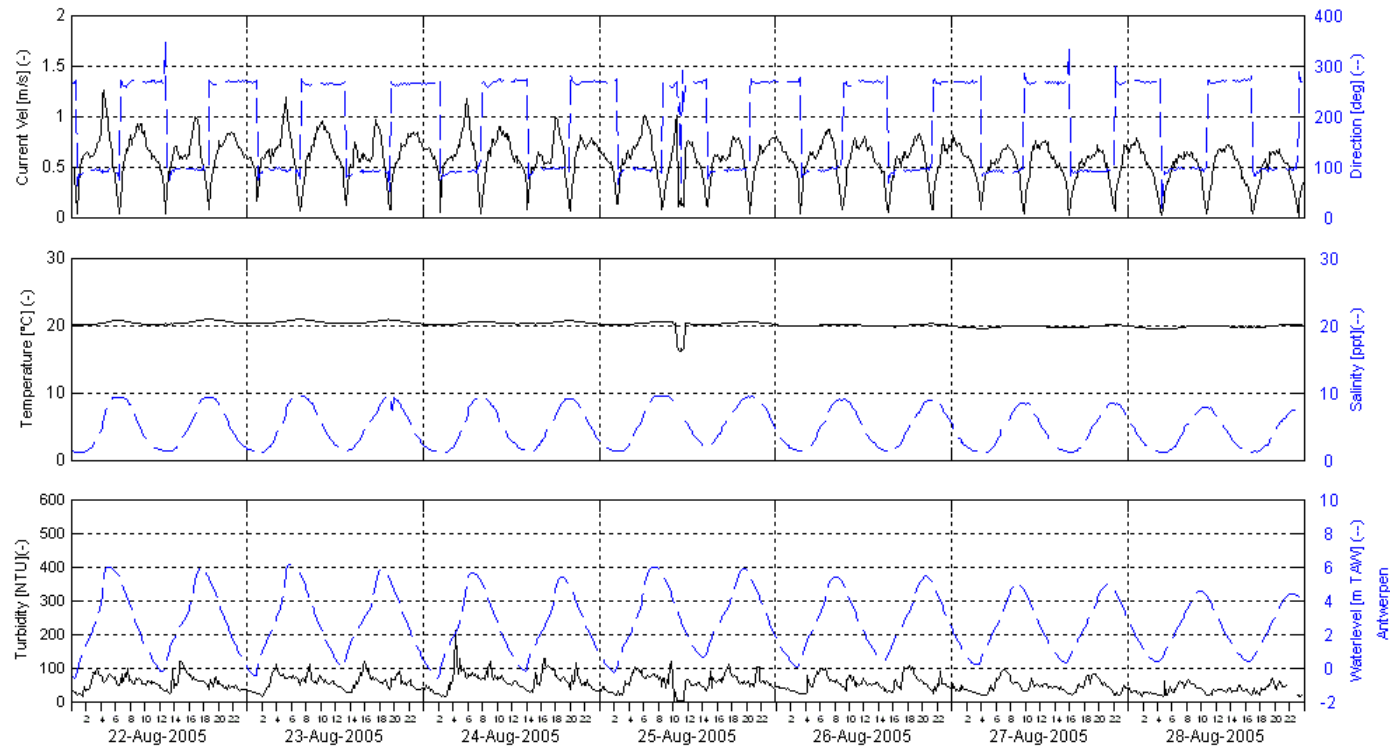


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 35 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:

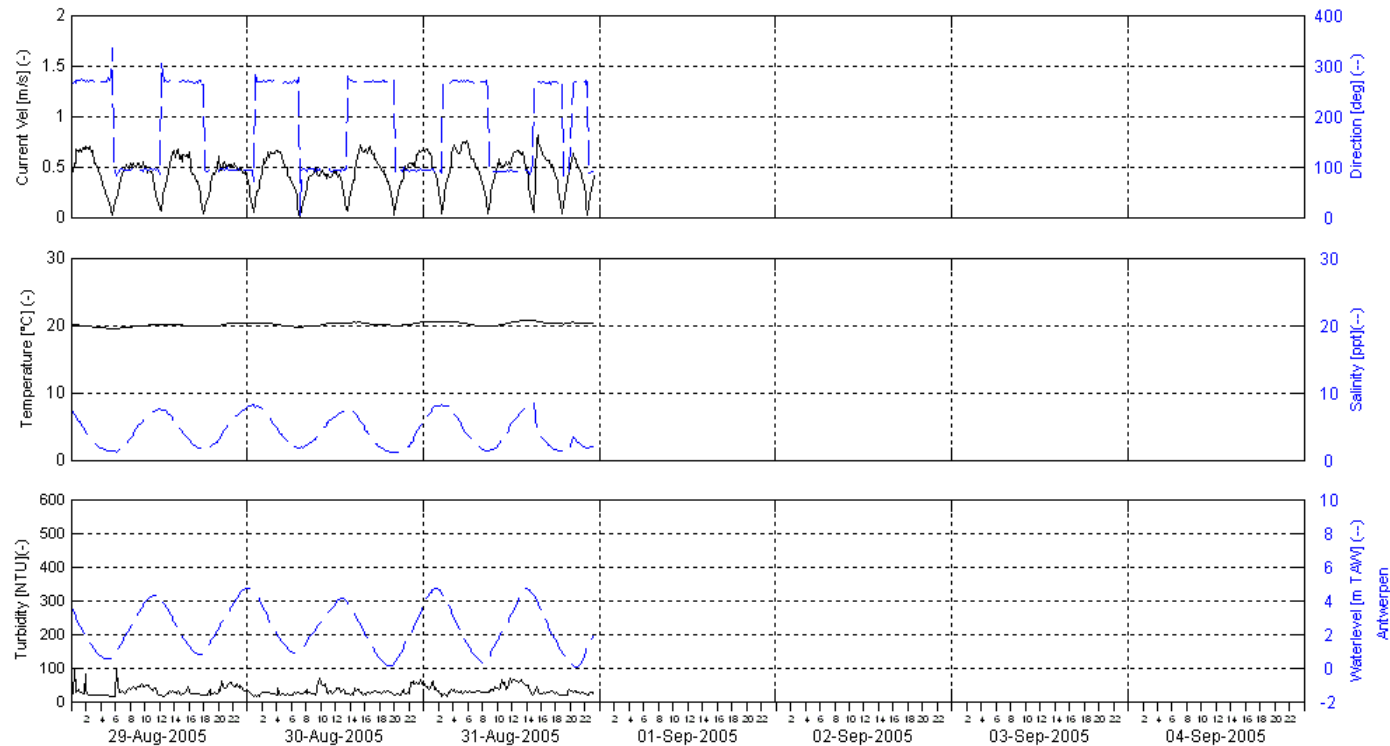


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 36 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:



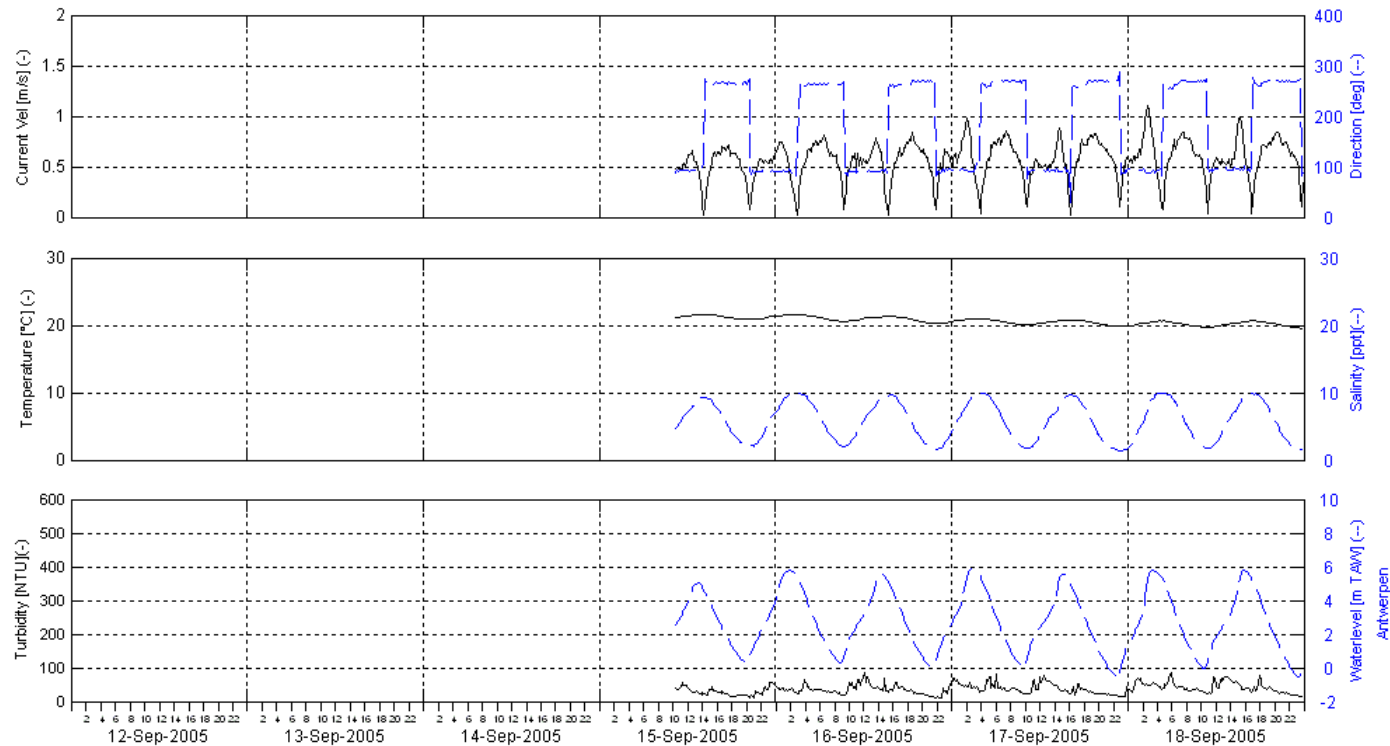
TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 38 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:

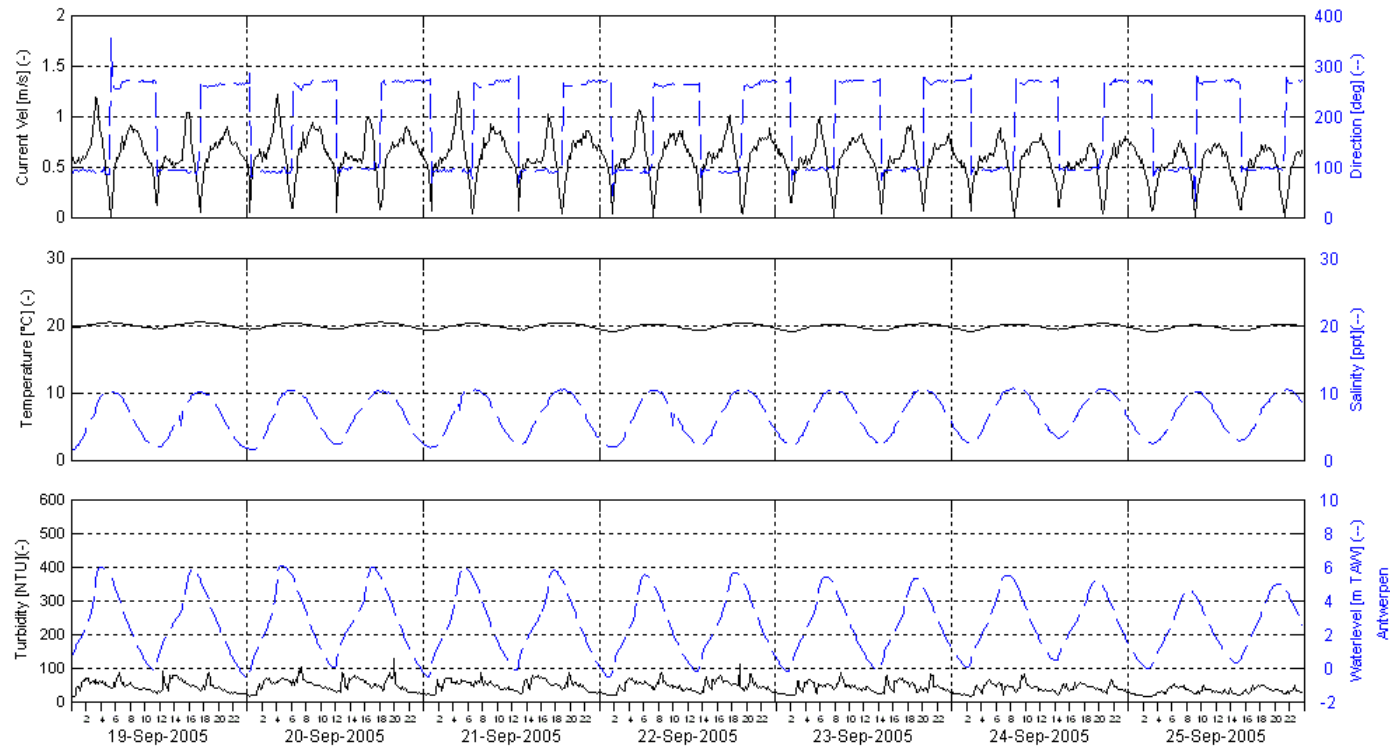


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 39 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:

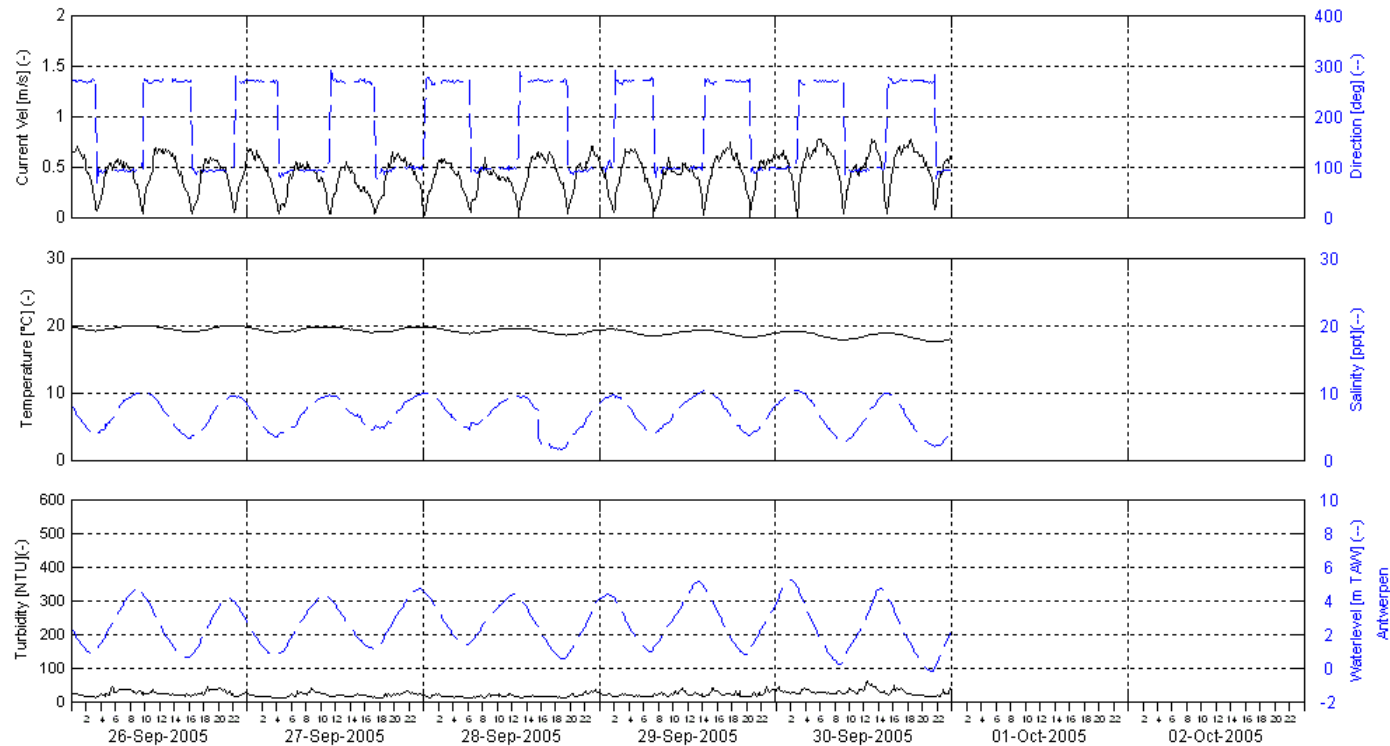


TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 1<sup>st</sup> semester 2005

Oosterweel Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(July – September)

Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

Data processed by:



TV SAM – Studiegorep Antwerpen Mobiel  
Plantin & Moretuslei 220 Bus 1  
2018 Antwerpen

I/RA/11265/05.019/MSA

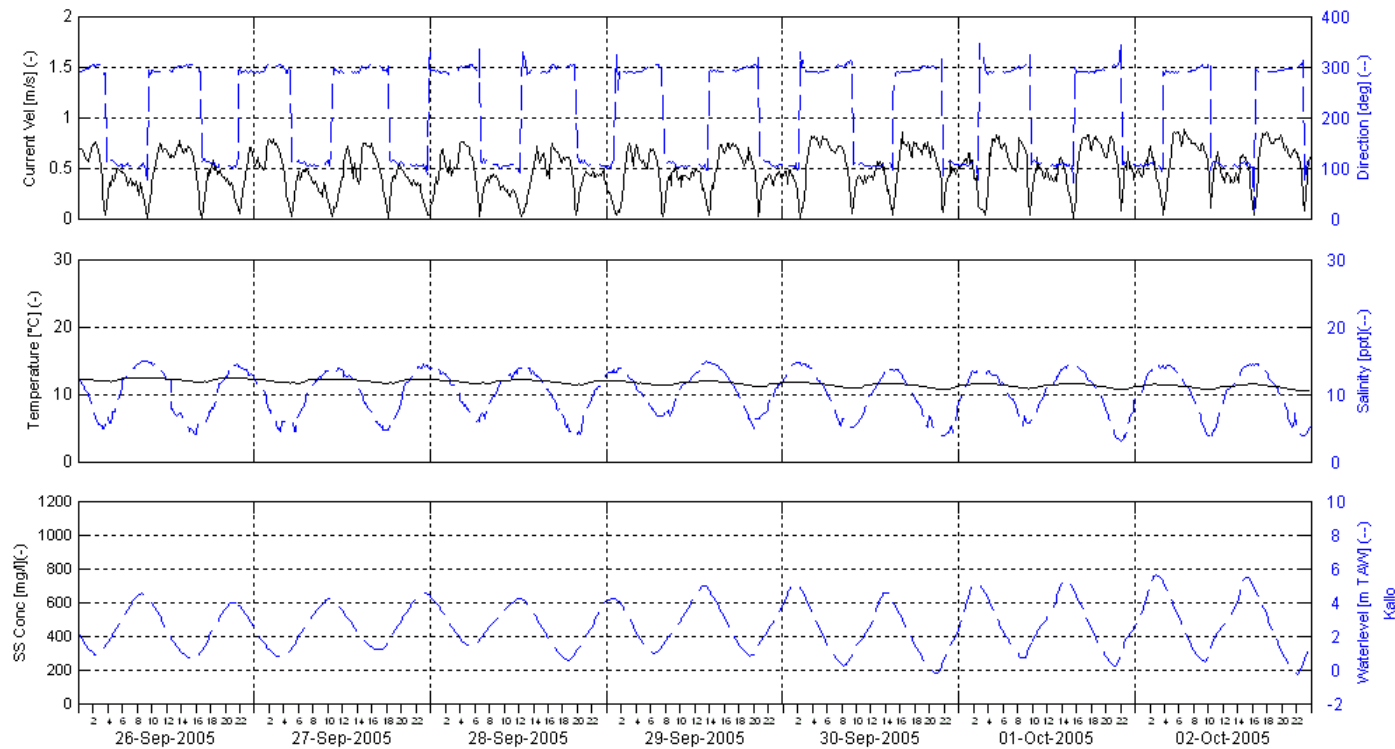
### **C.2.2. October – November (Processed for the HCBS measurement campaign)**

## Datasheet order

Nr	<i>Location</i>	Depth of Instrument	
		<i>[m] above bottom</i>	<i>[m TAW]</i>
1	Boerenschans	4	-5.0
2	Boerenschans	2	-7.0
3	Hoboken	2	-5.0
4	Oosterweel	4	-7.0
5	Oosterweel	2	-9.0
8	Oosterweel linker oever	4.5	-2.3
9	Oosterweel linker oever	1	-5.8

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

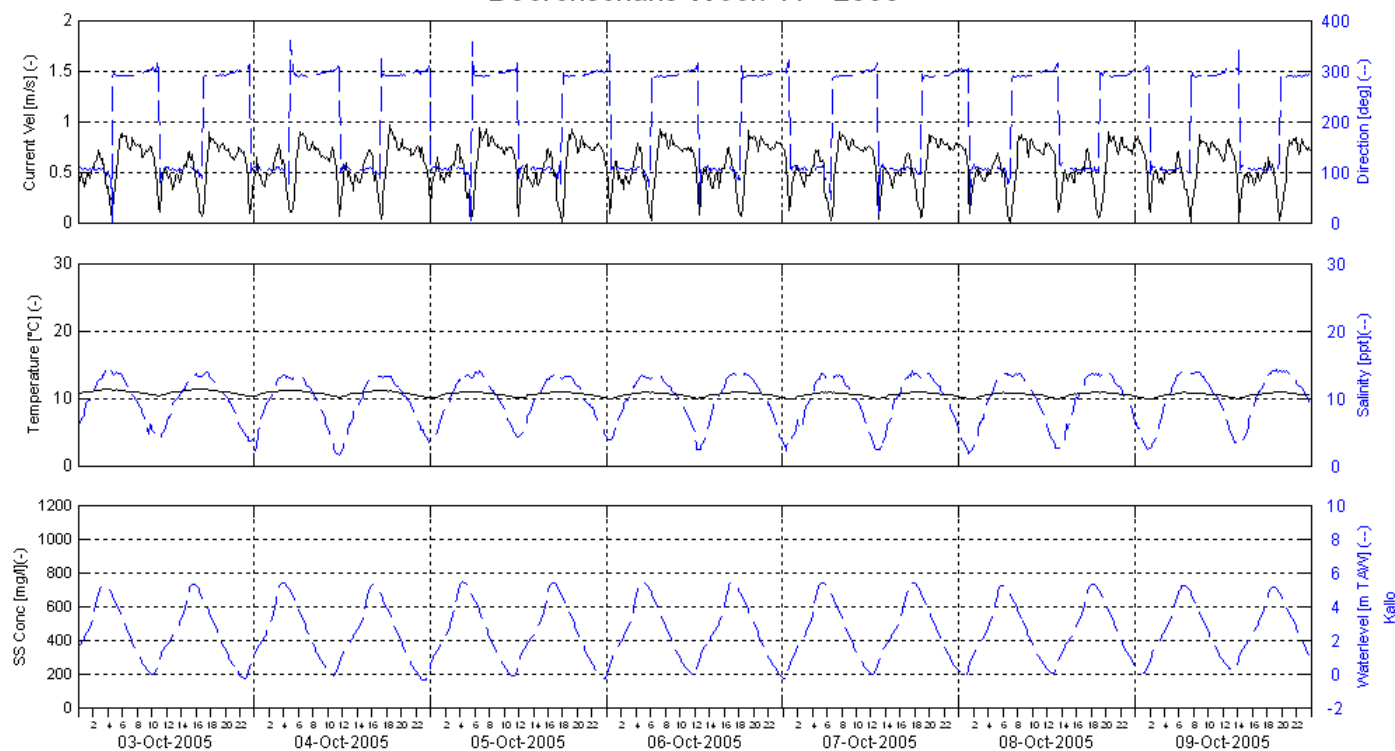
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 41 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

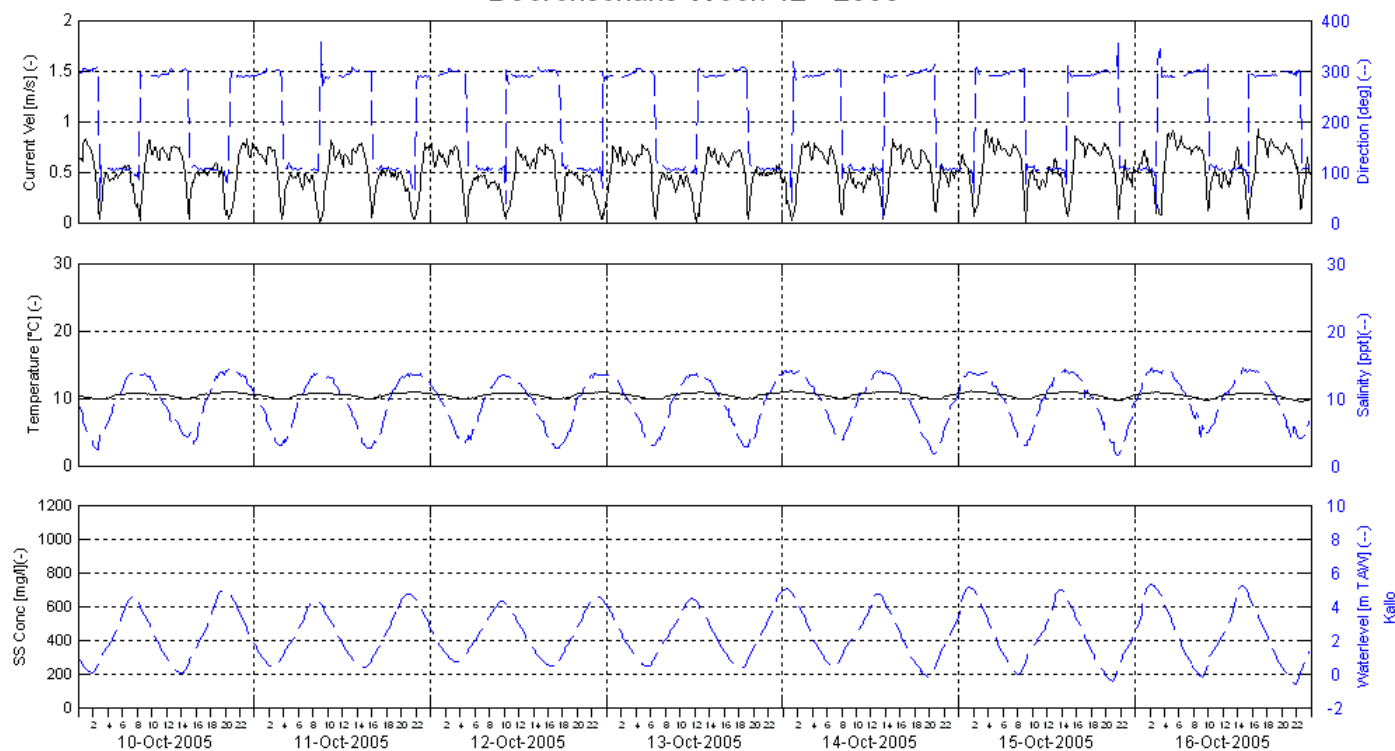
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 42 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

In association with:

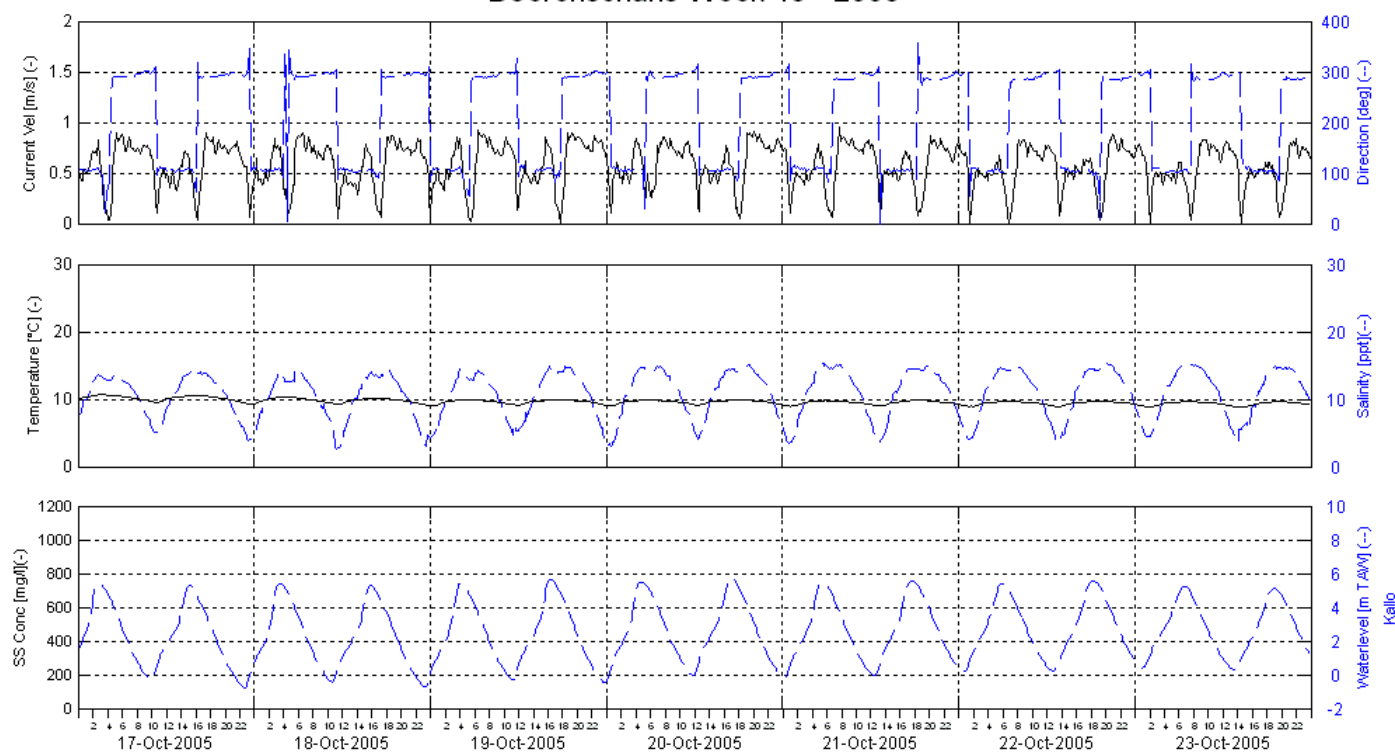


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 43 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

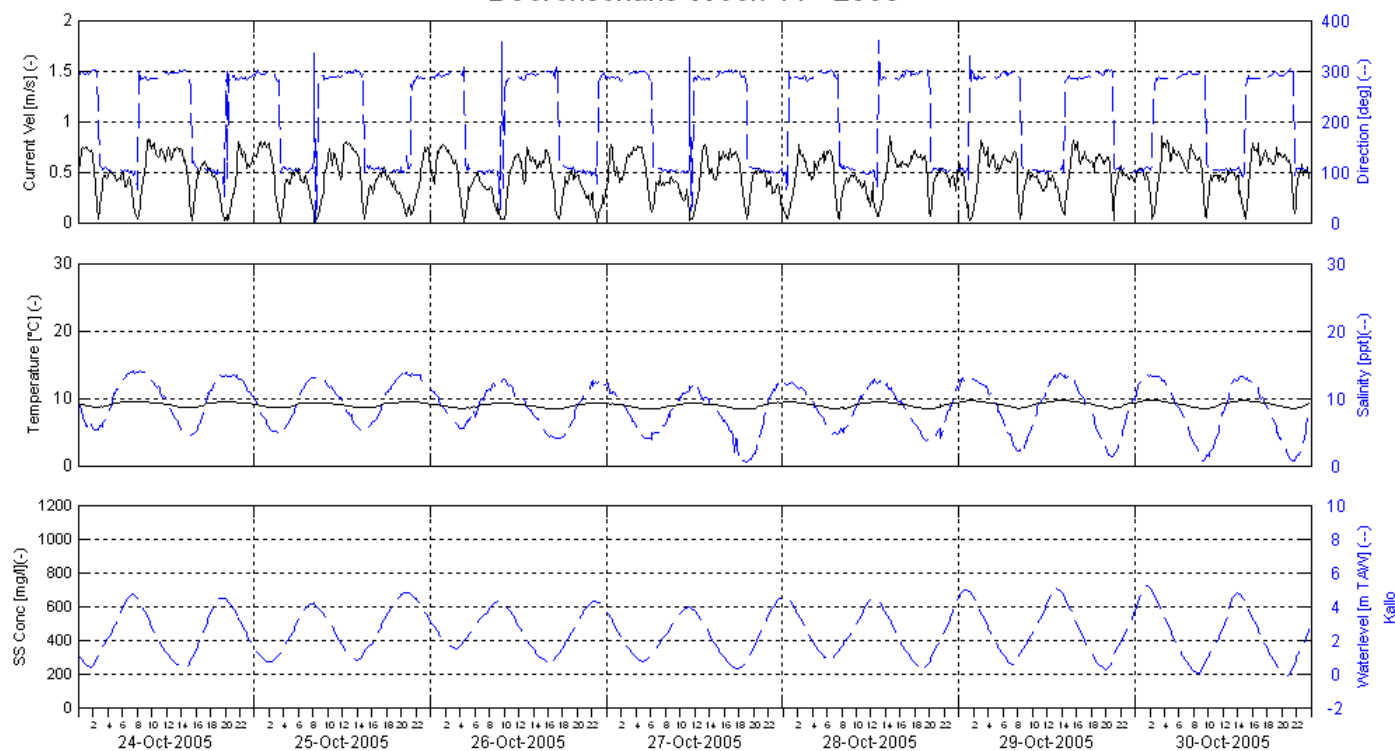
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 44 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

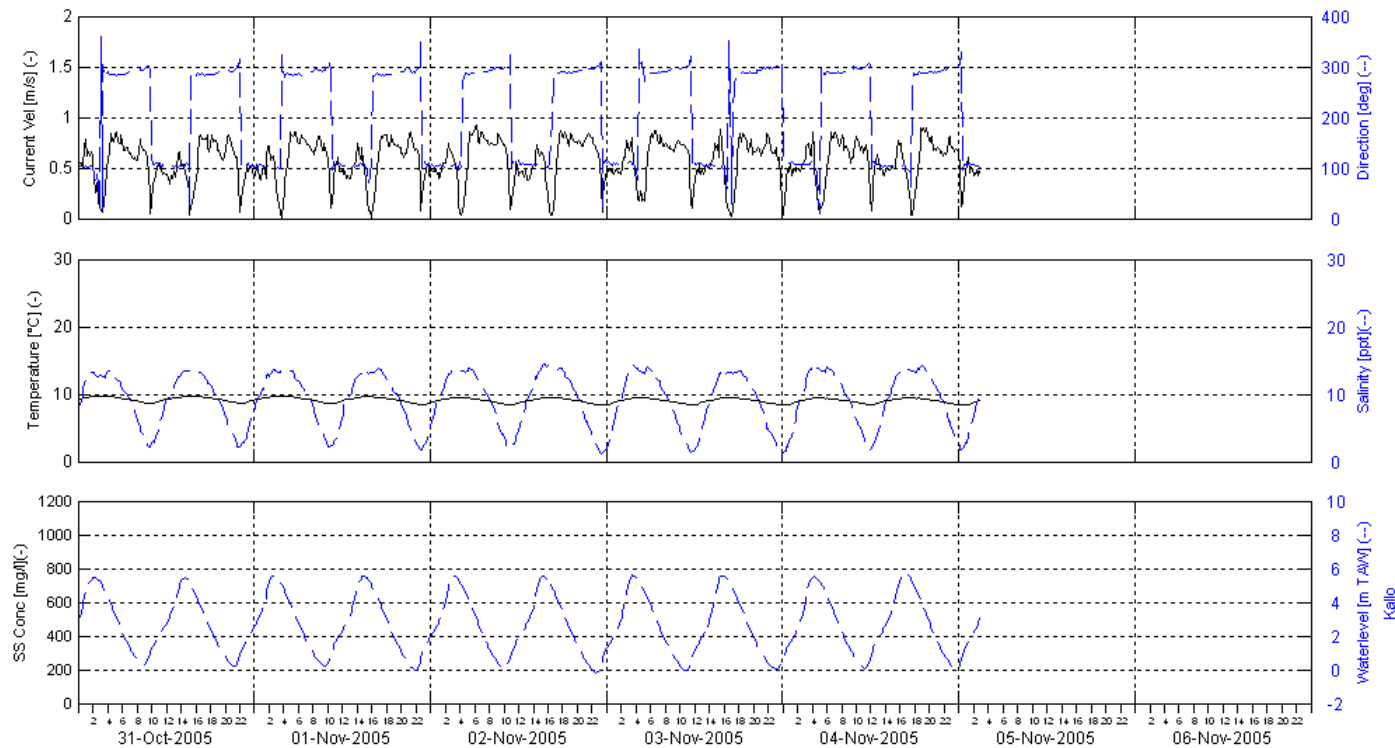
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 45 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

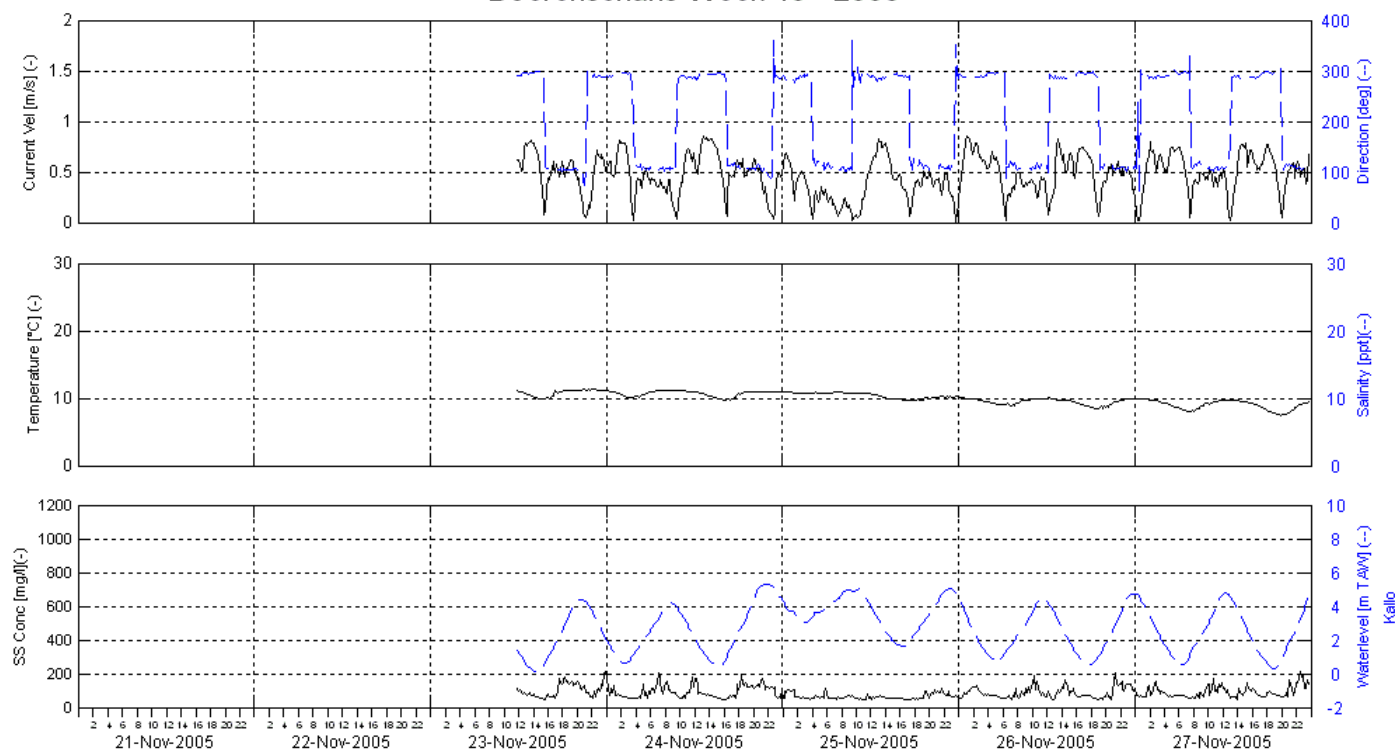
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 48 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

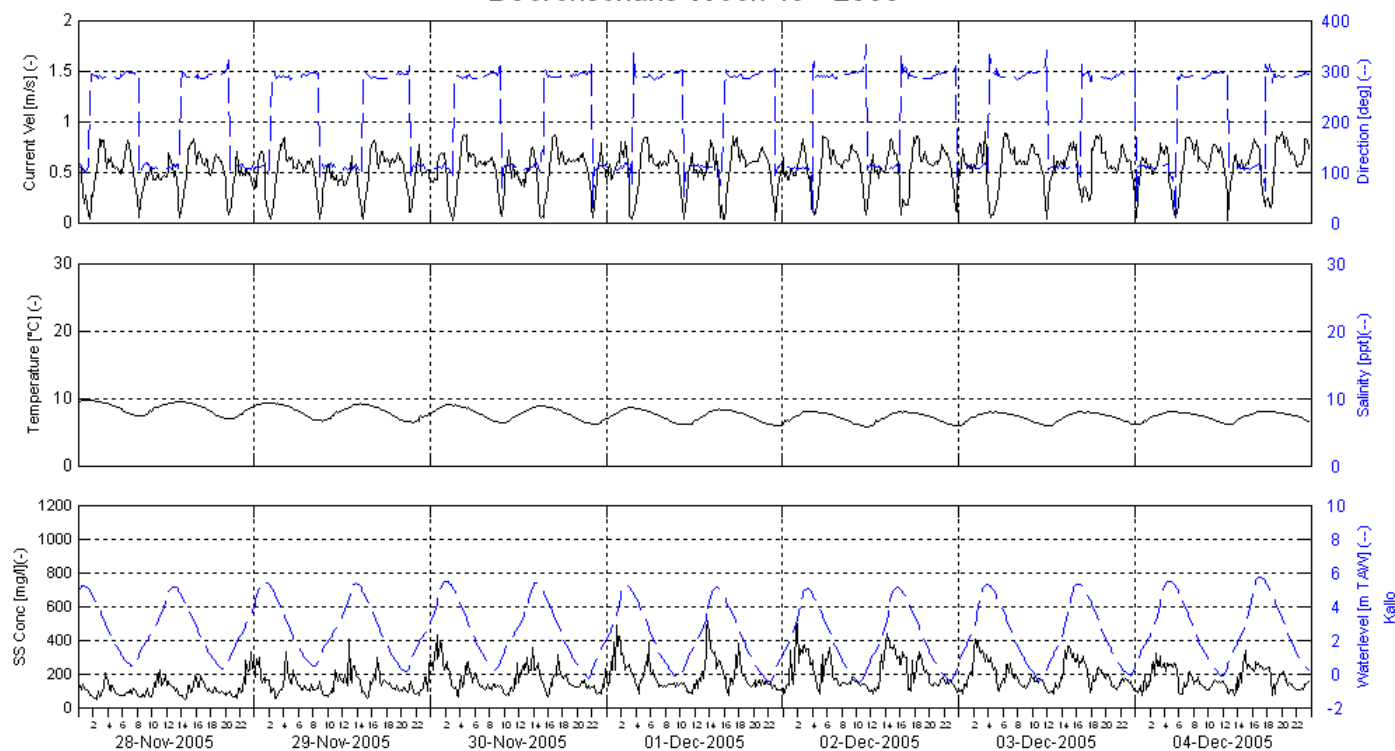
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 49 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

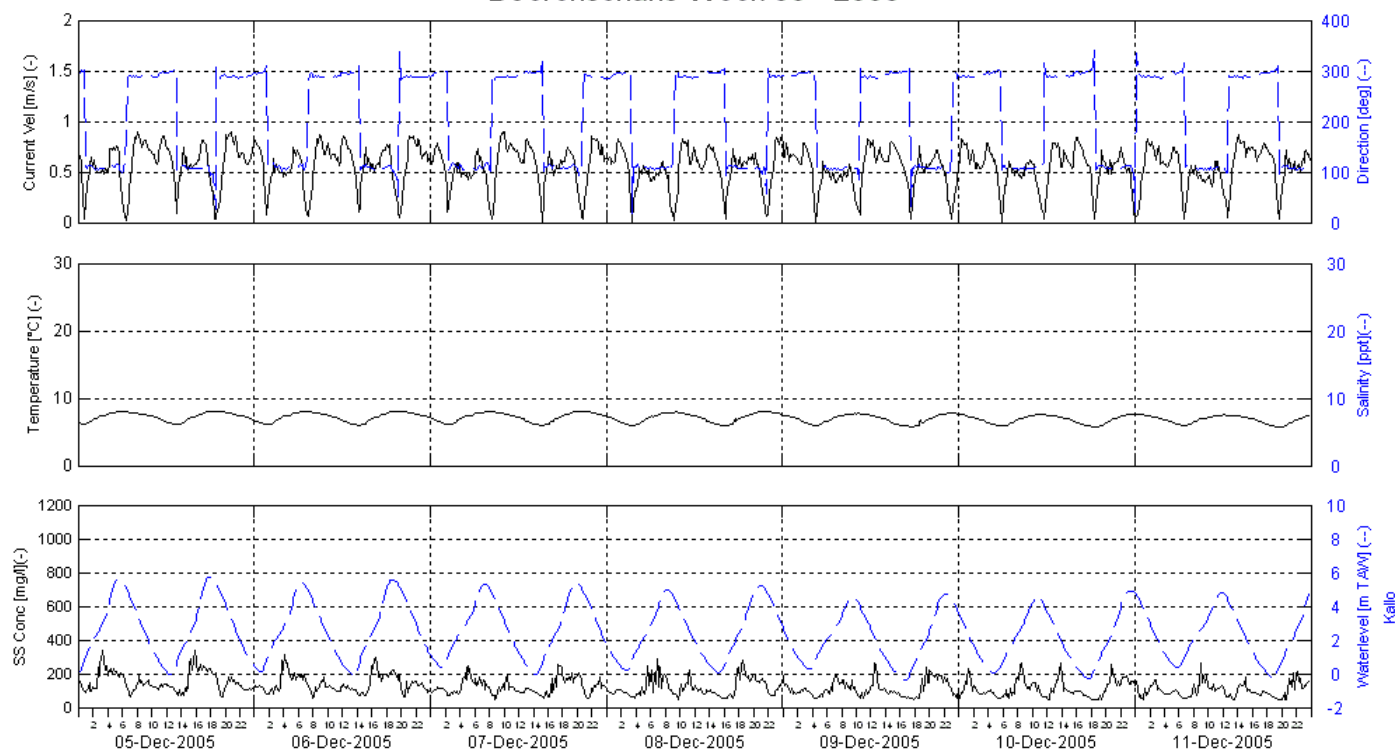
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 50 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

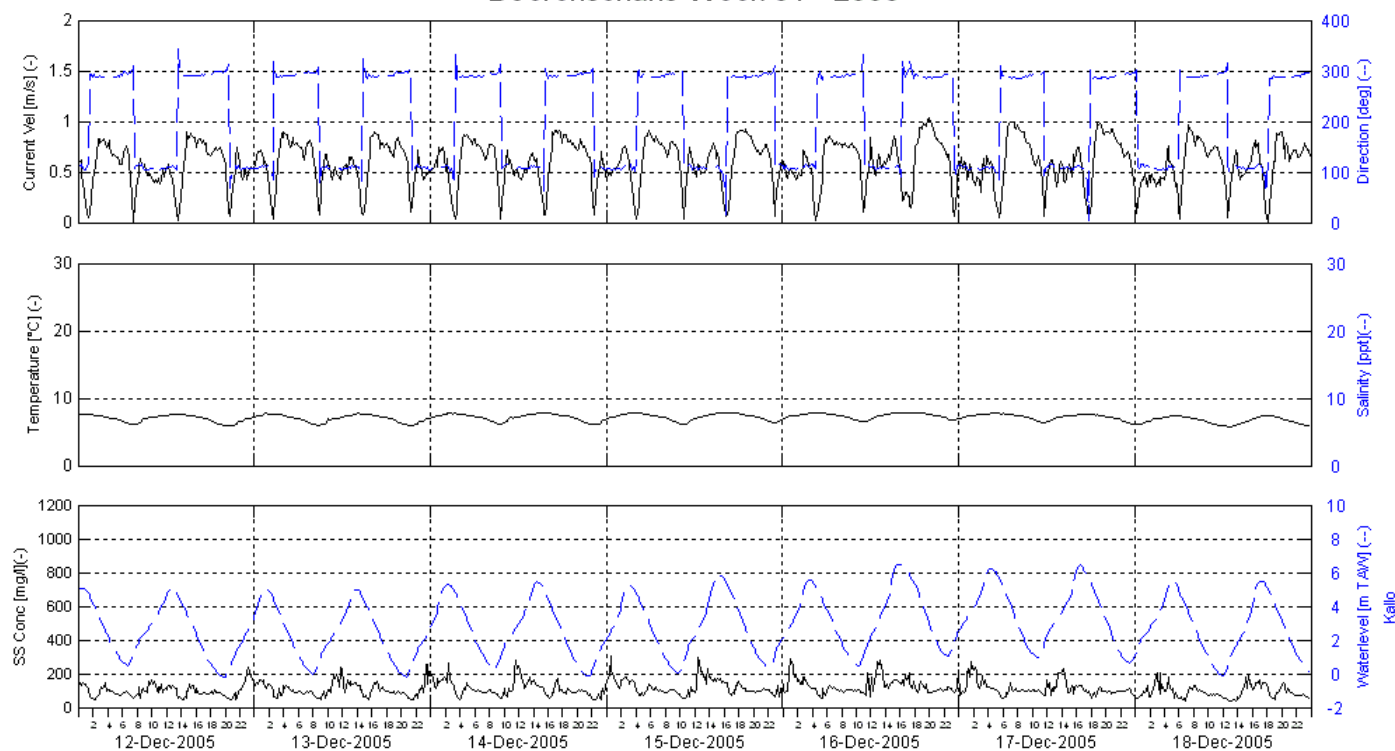
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 51 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

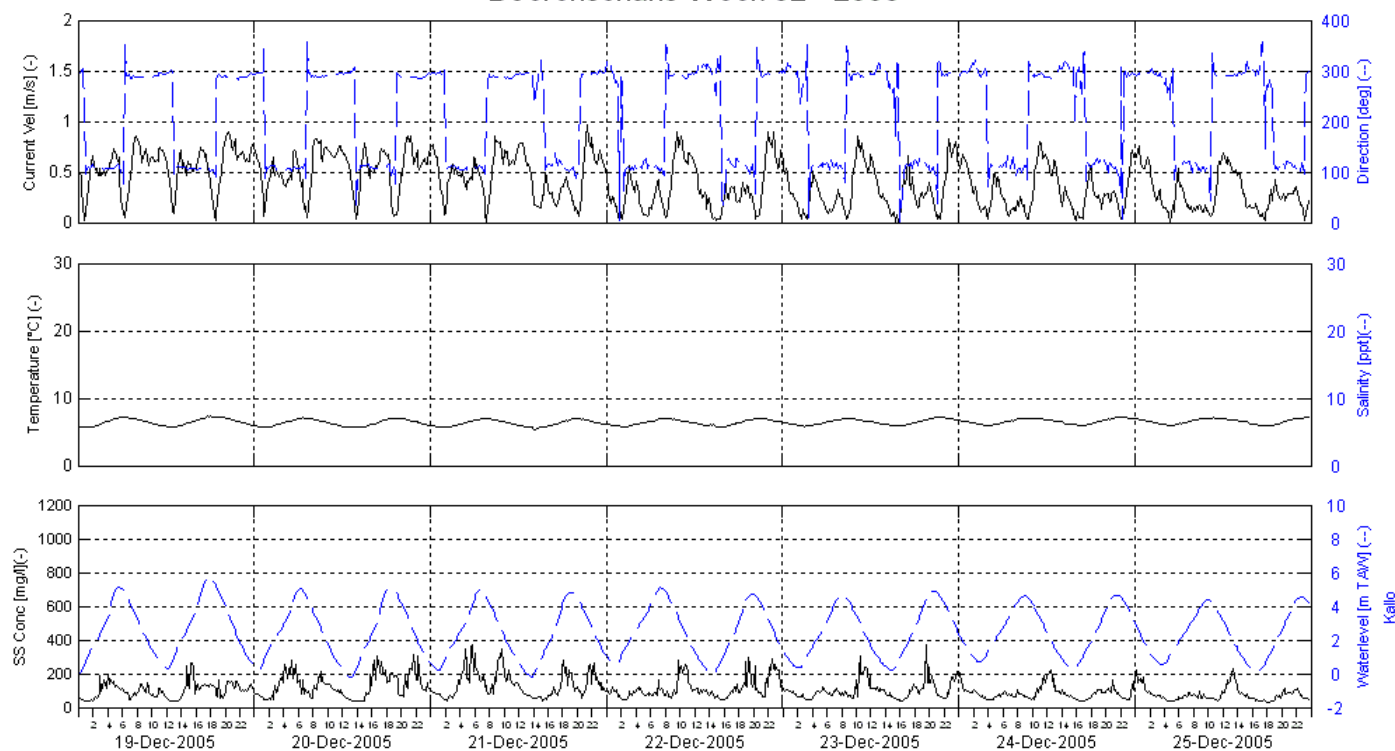
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 52 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

In association with:

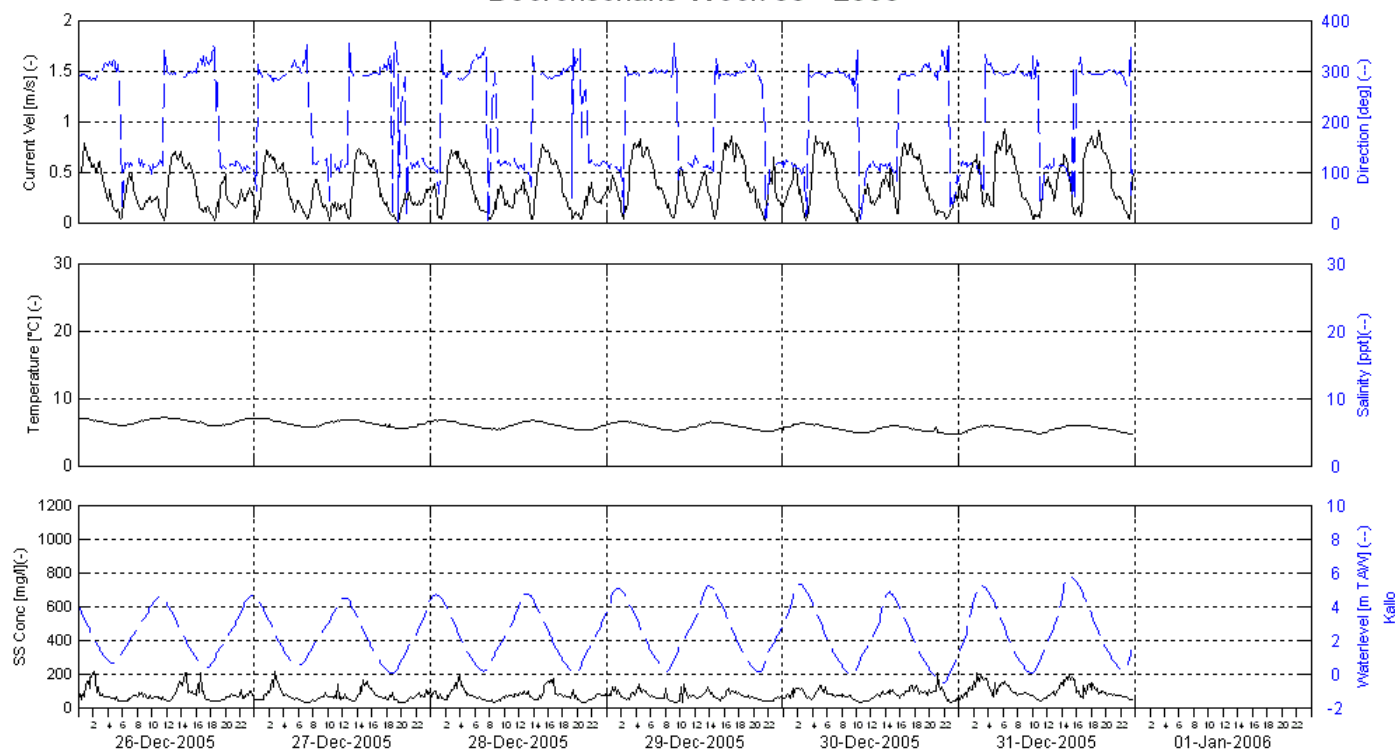


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 53 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 4m above bottom (-5m TAW)

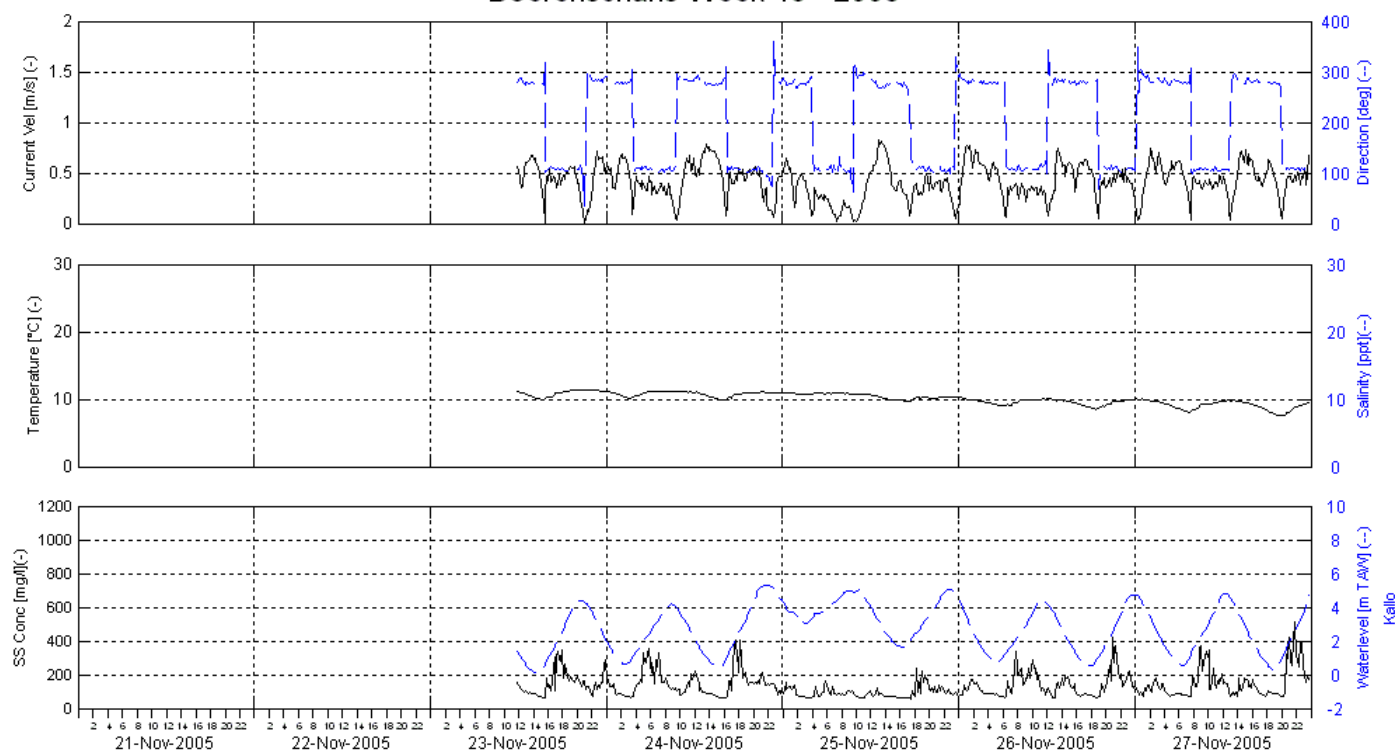
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 48 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 2m above bottom (-7m TAW)

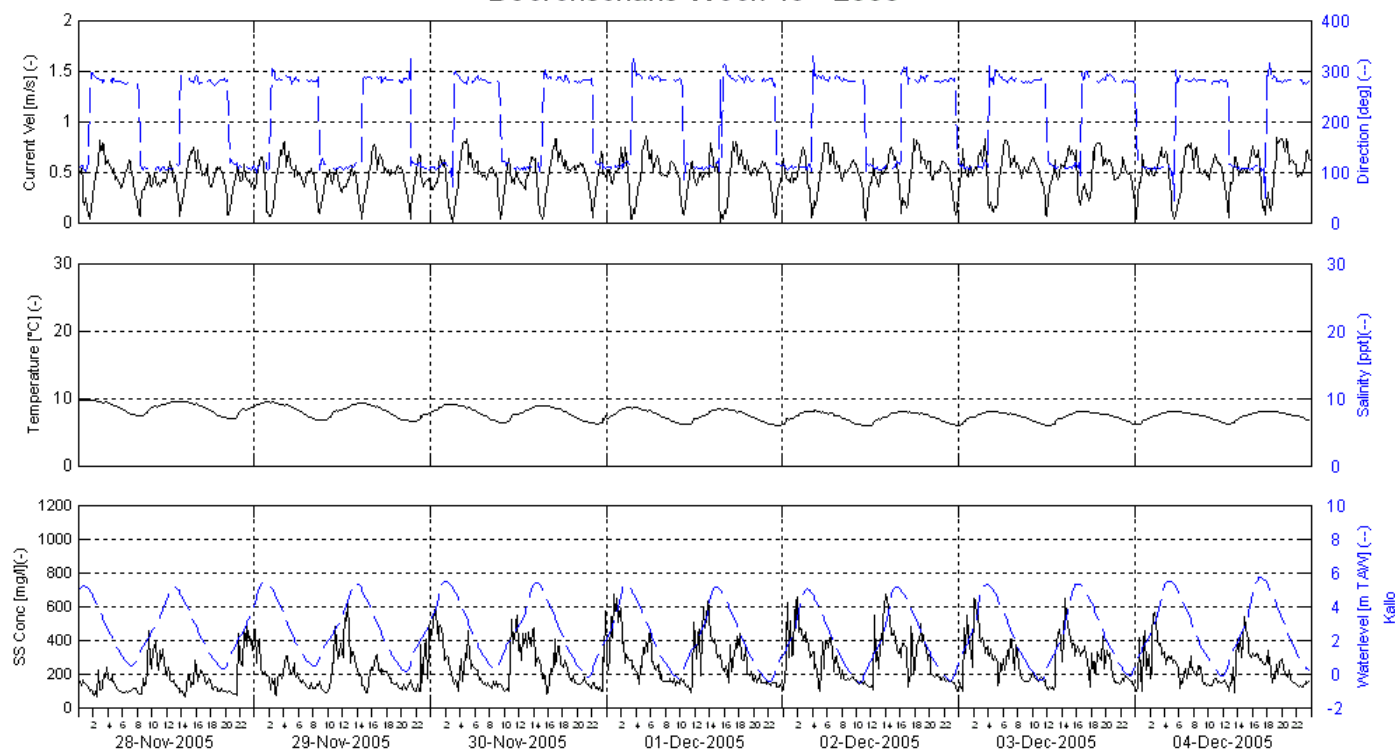
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 49 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 2m above bottom (-7m TAW)

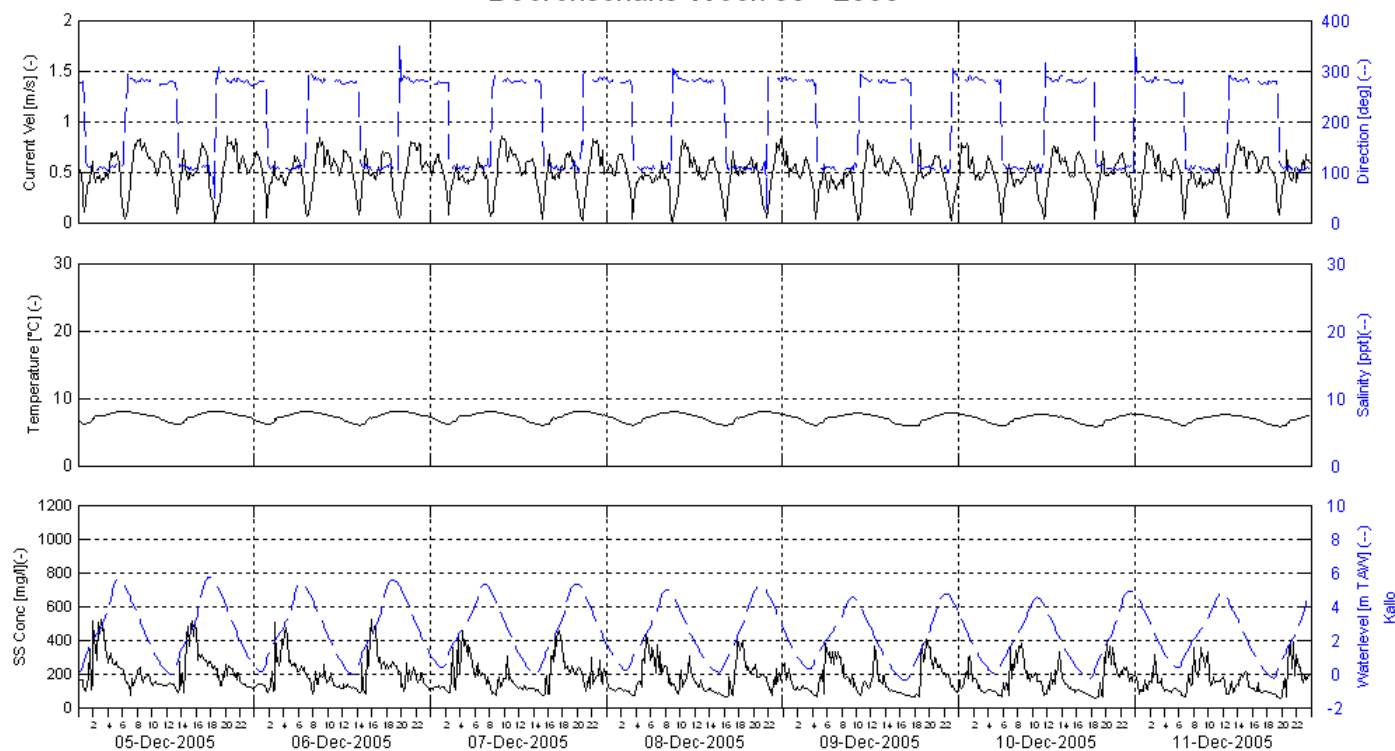
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 50 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 2m above bottom (-7m TAW)

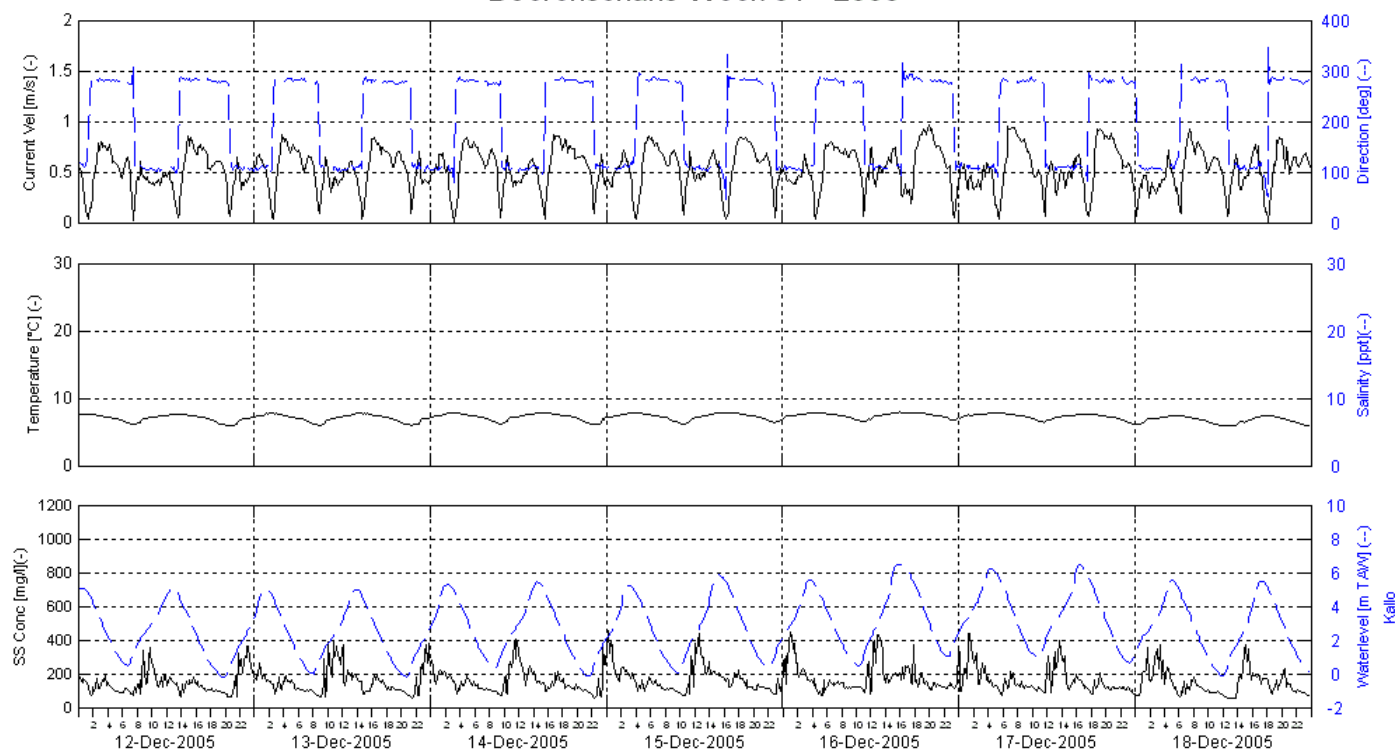
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 51 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 2m above bottom (-7m TAW)

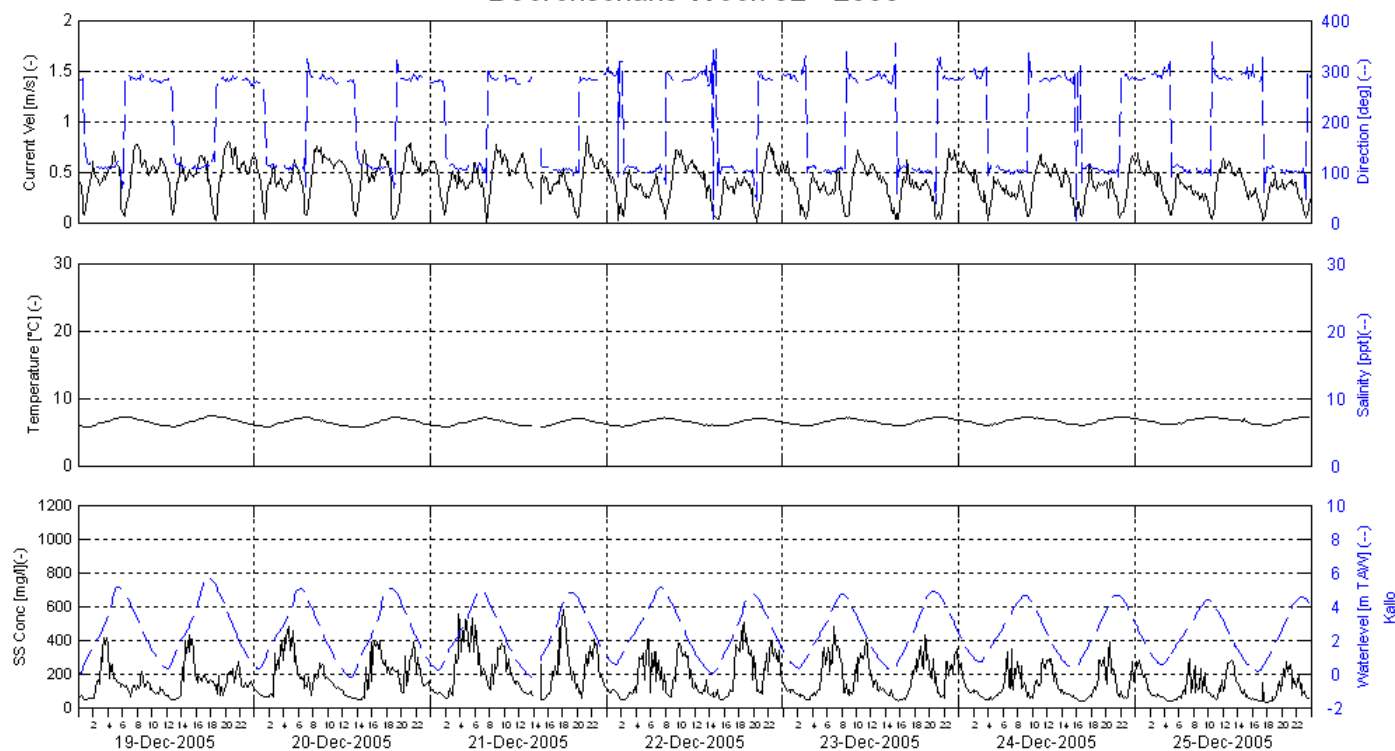
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 52 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 2m above bottom (-7m TAW)

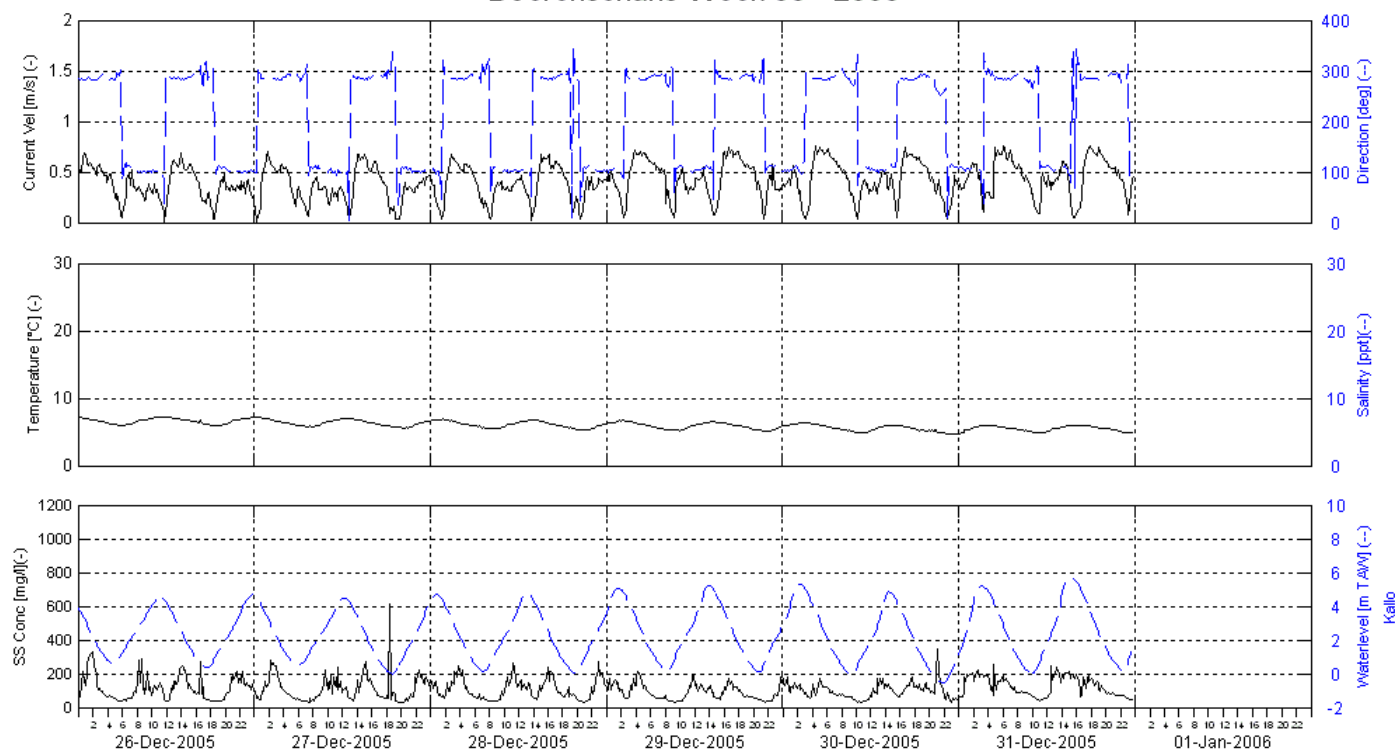
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Boerenschans Week 53 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Boerenschans 2m above bottom (-7m TAW)

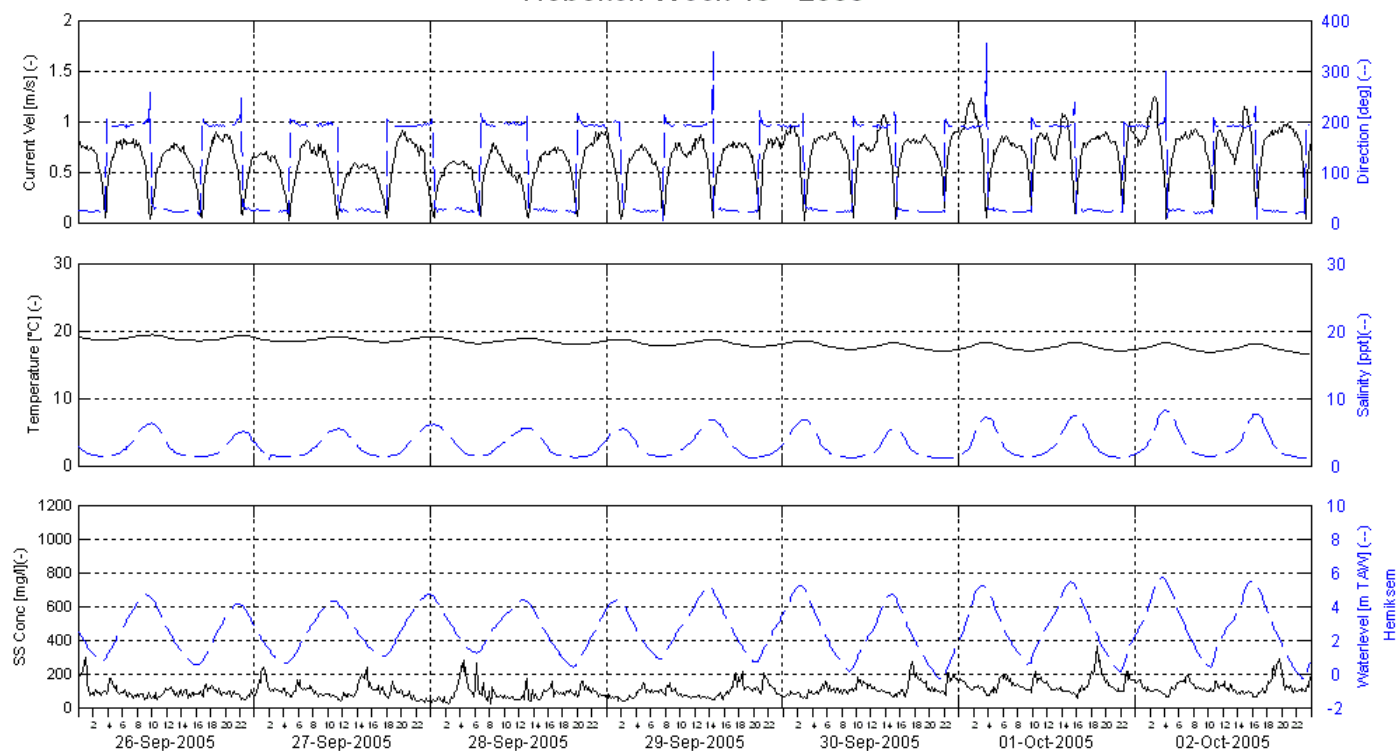
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

In association with:

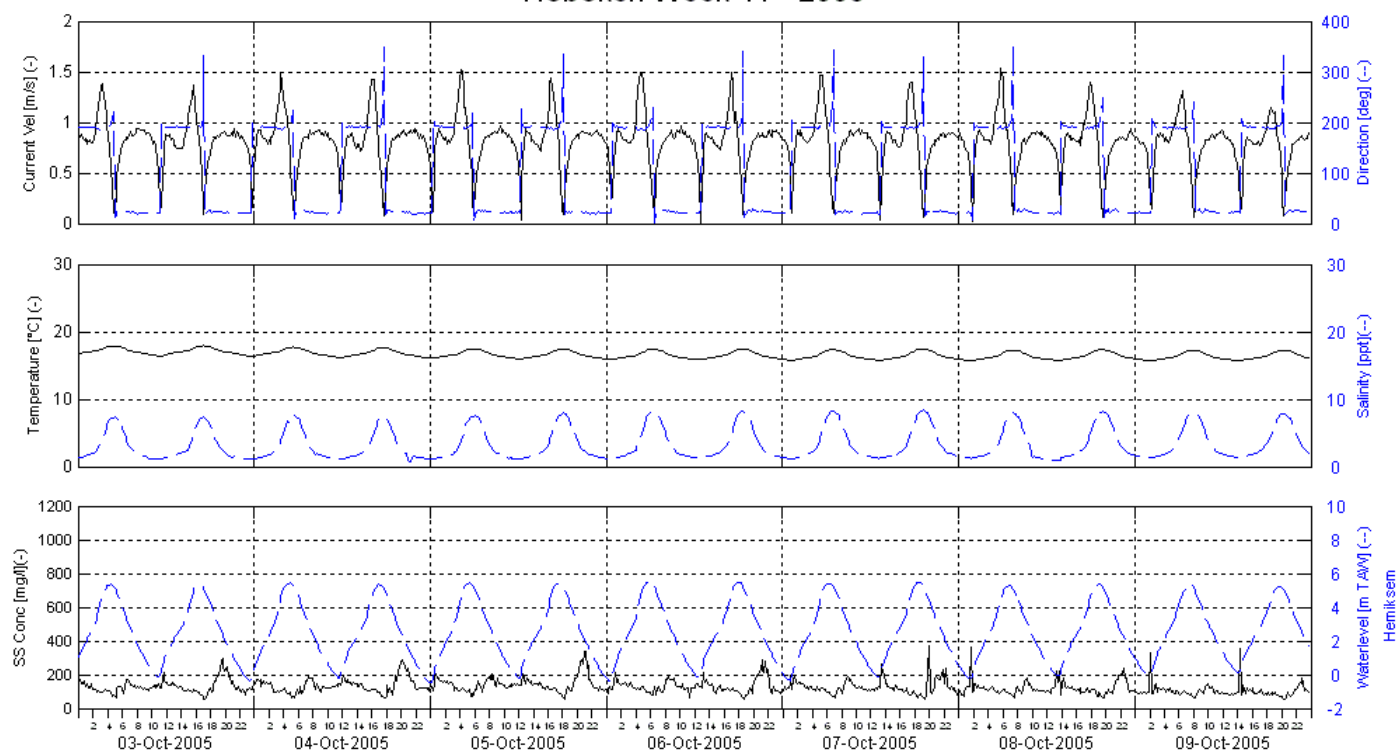


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 41 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

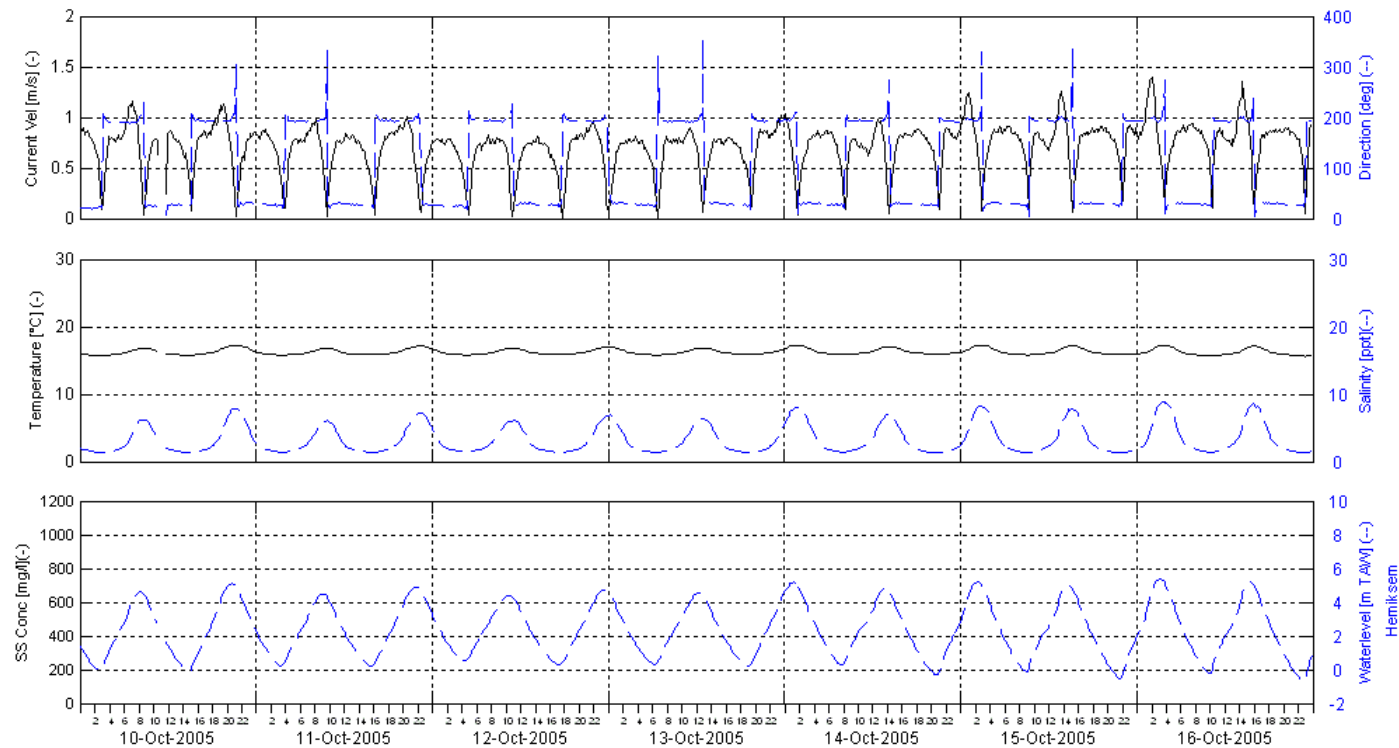
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 42 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

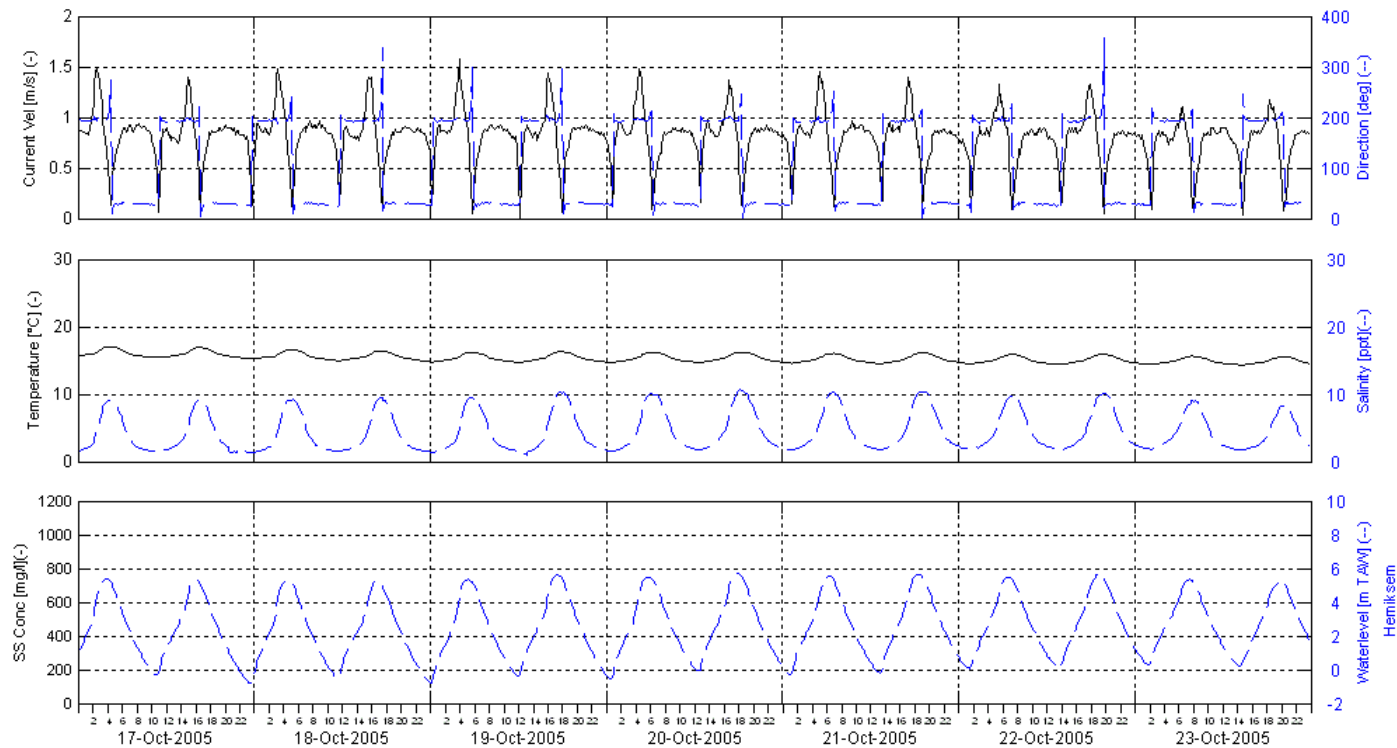
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 43 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

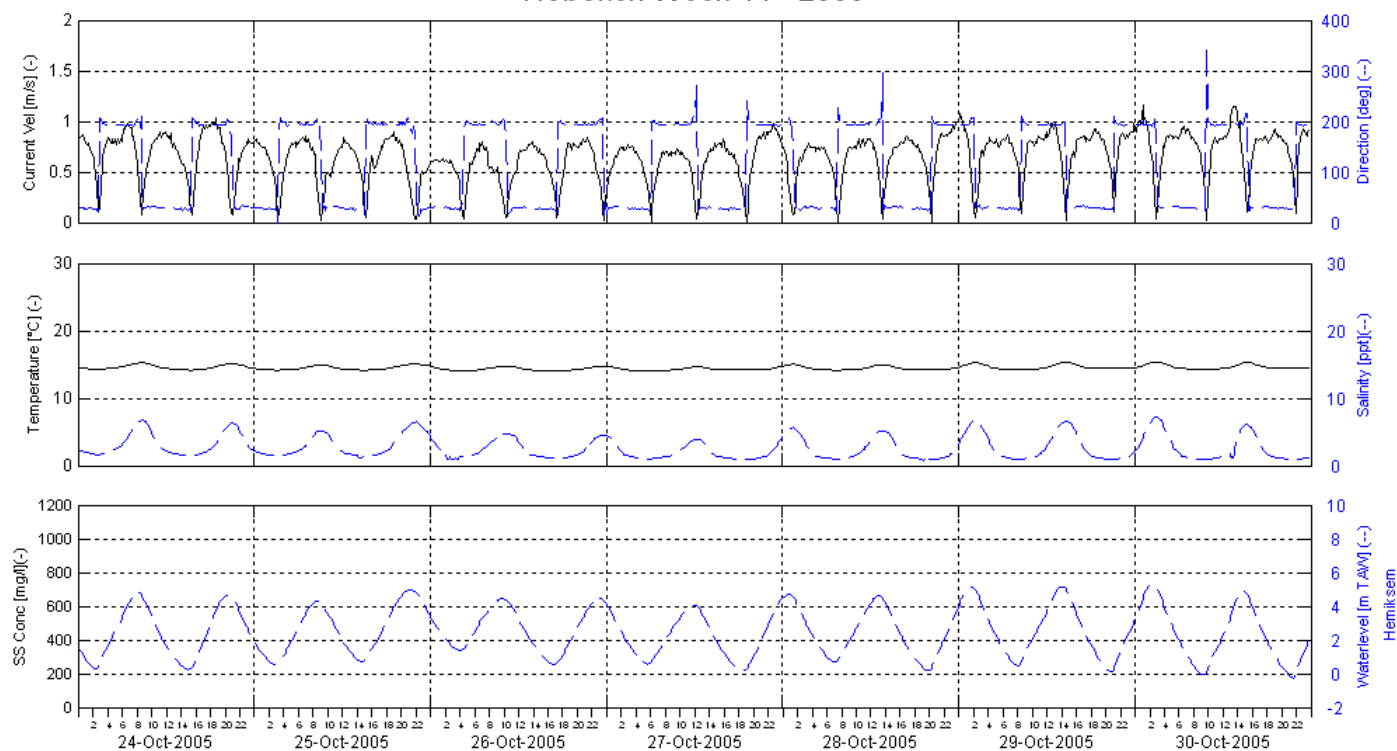
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 44 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

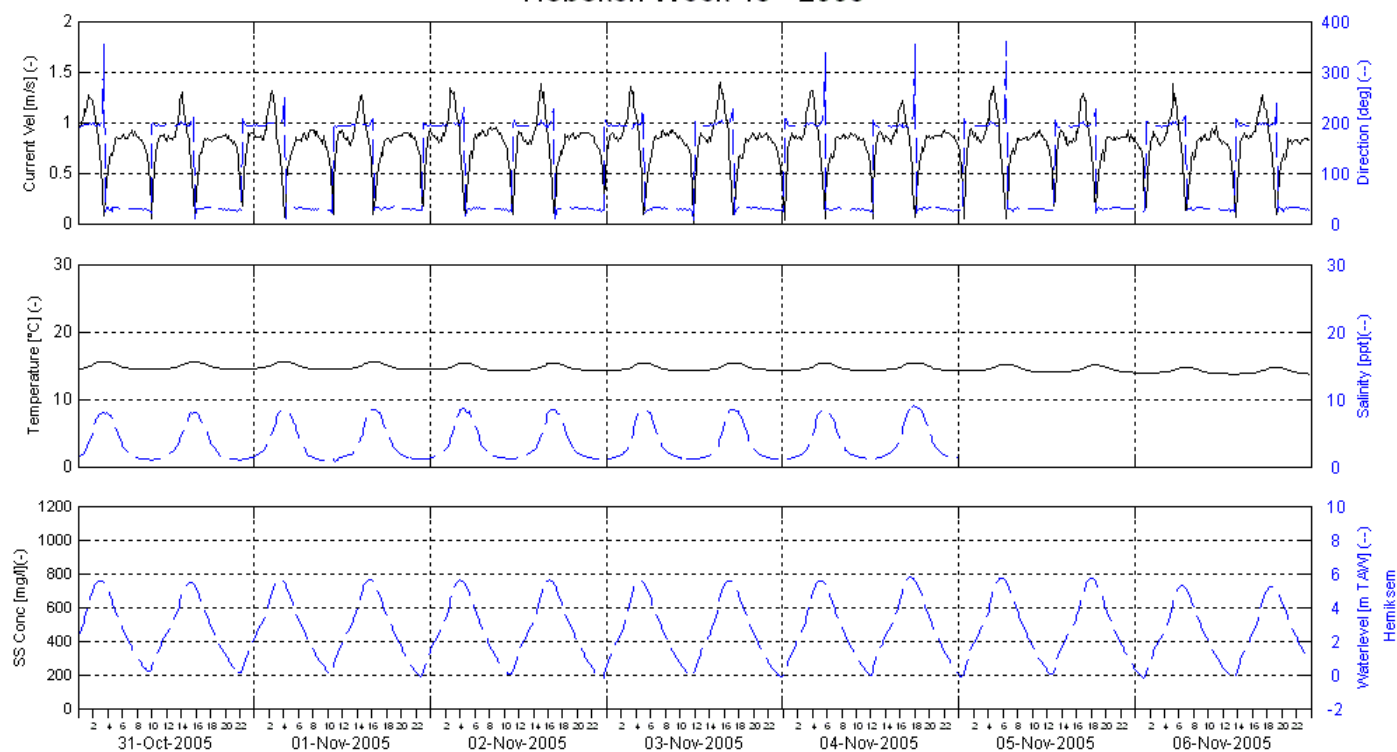
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 45 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

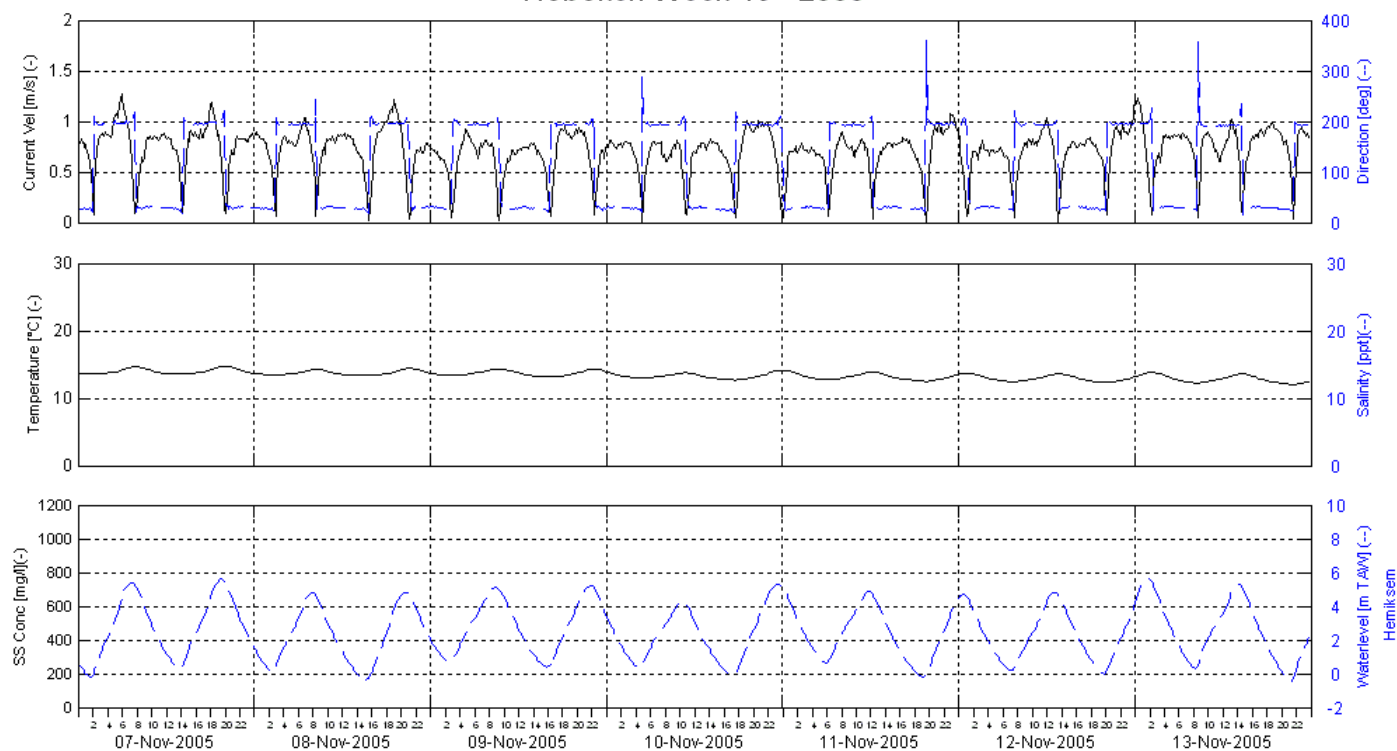
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 46 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

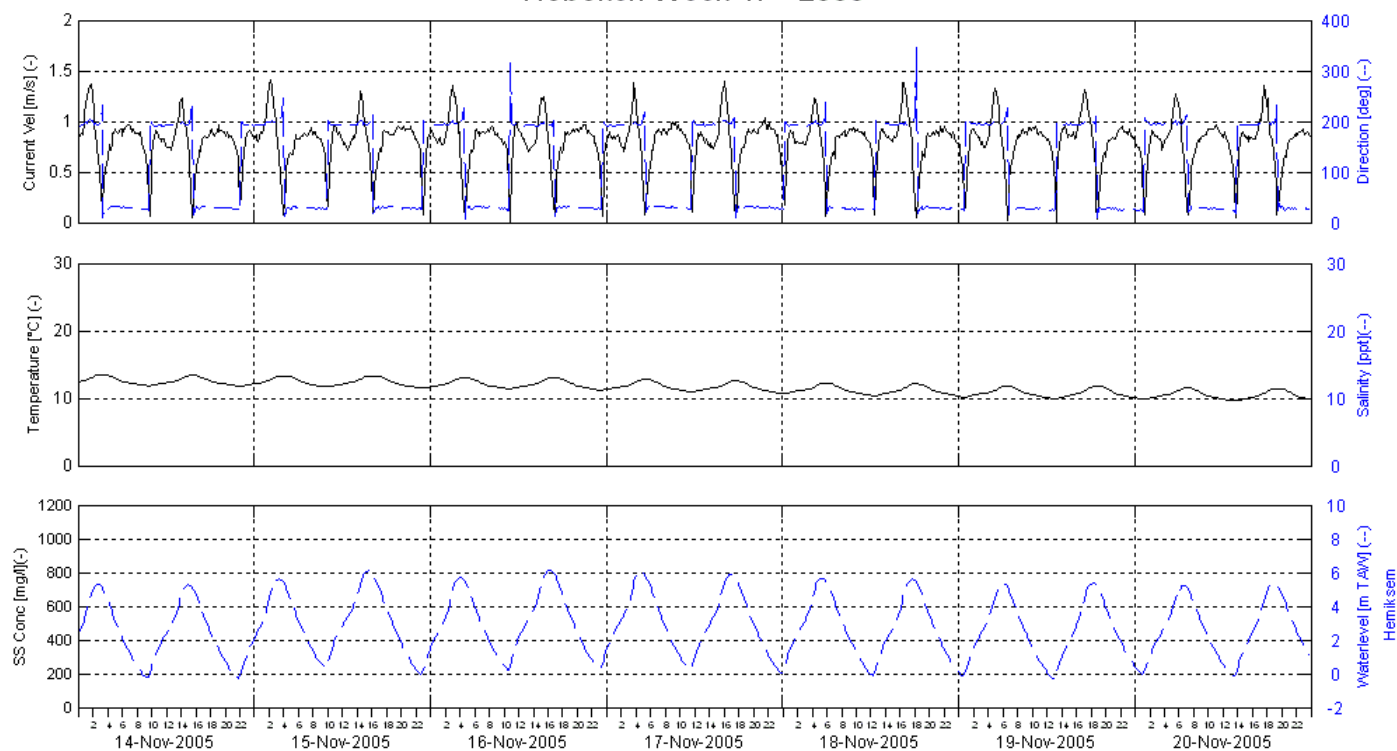
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 47 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

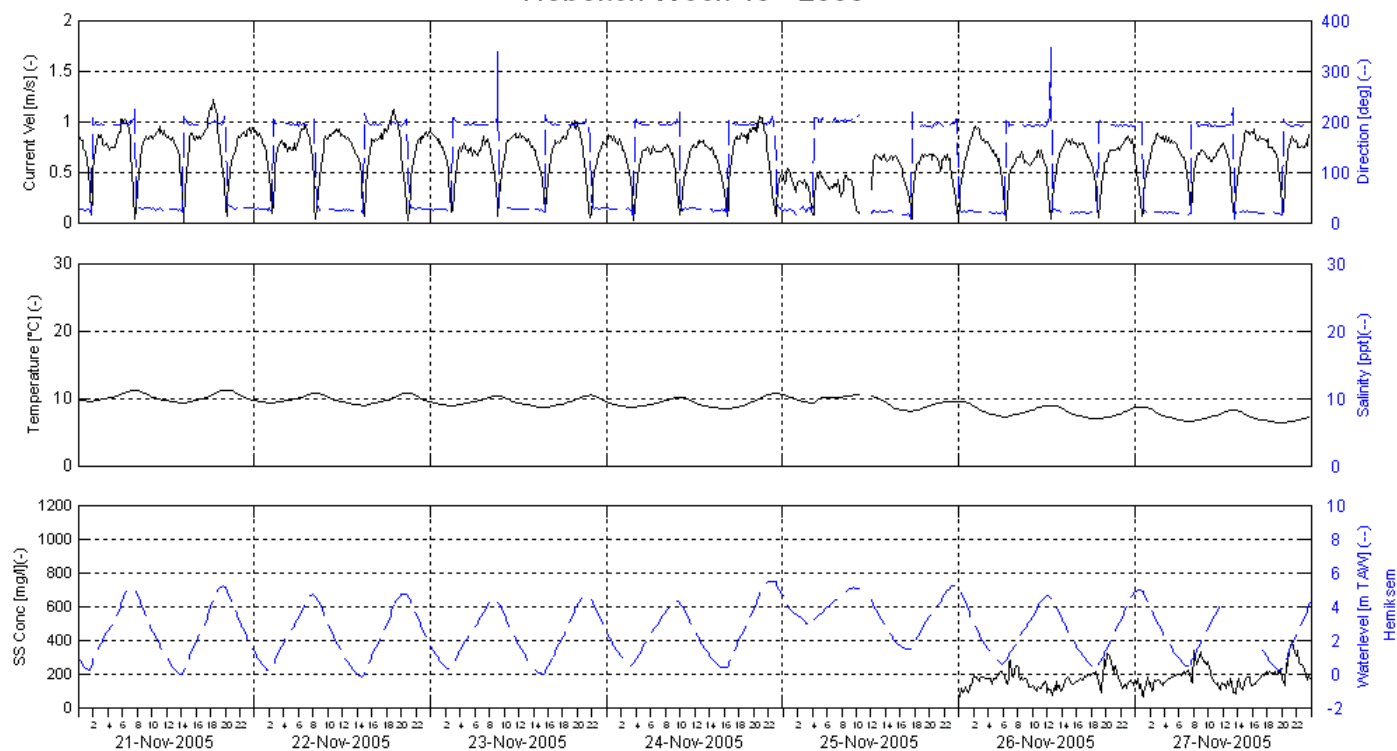
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 48 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

In association with:

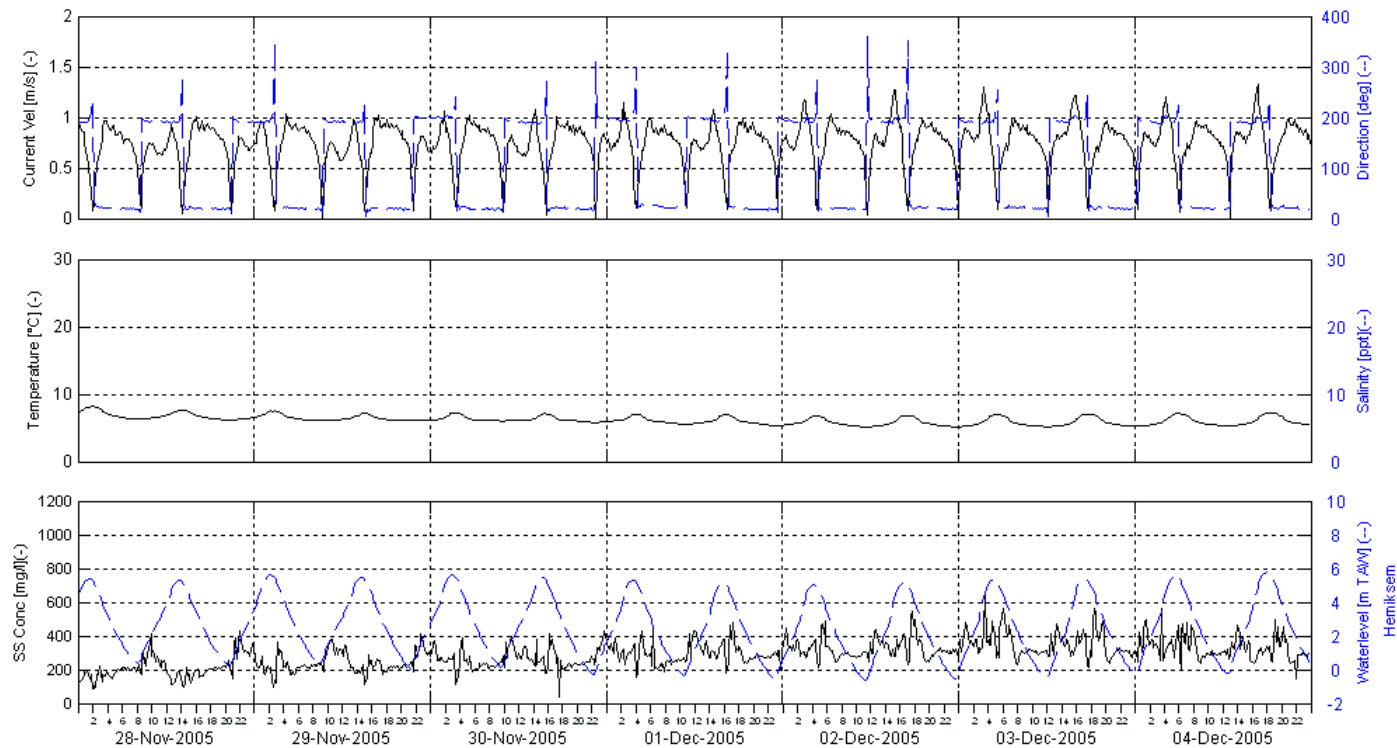


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 49 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

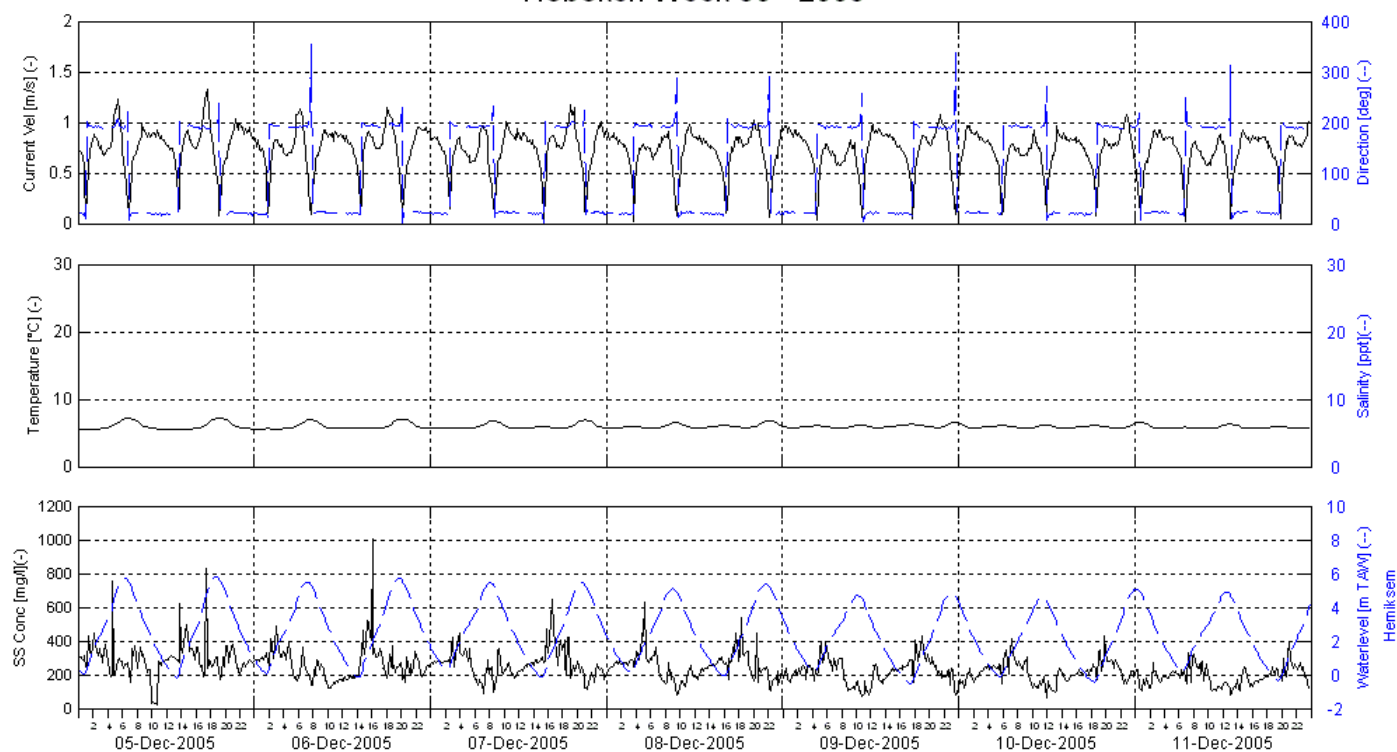
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 50 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

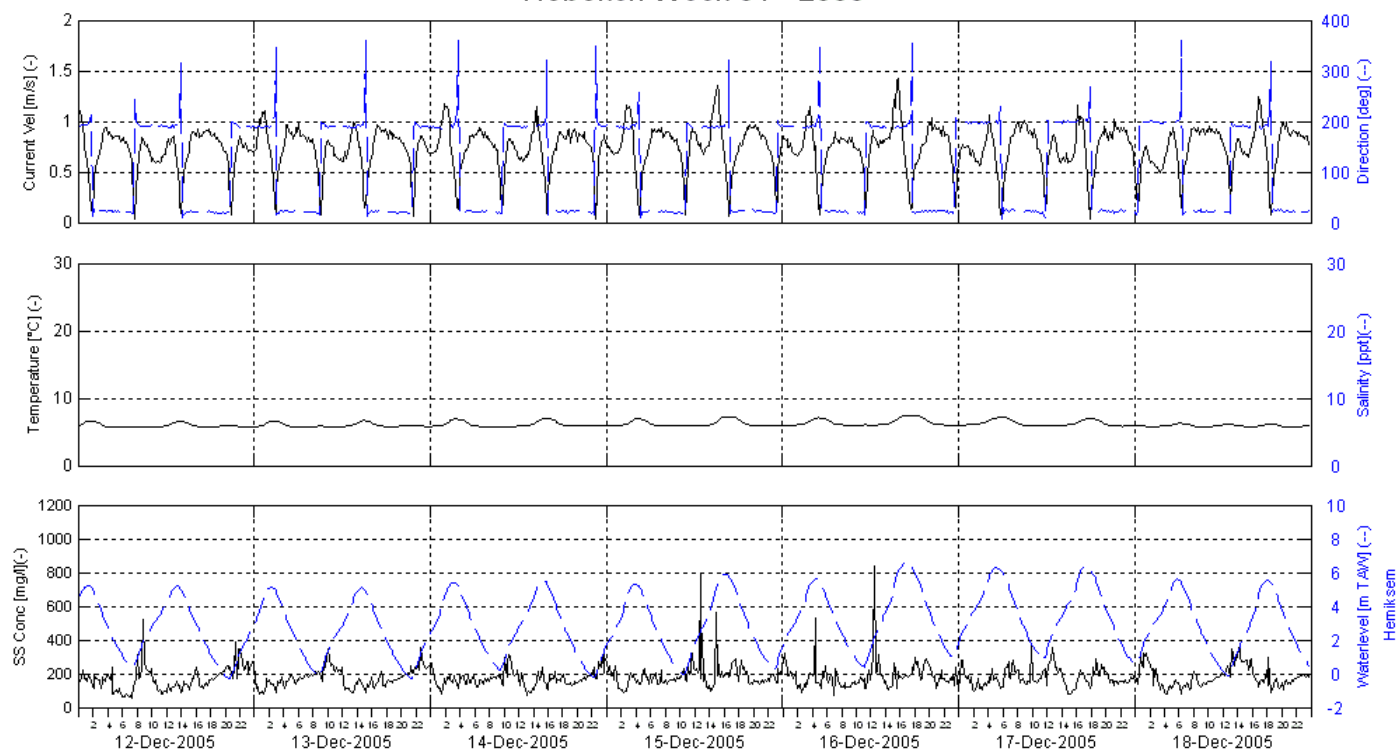
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 51 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

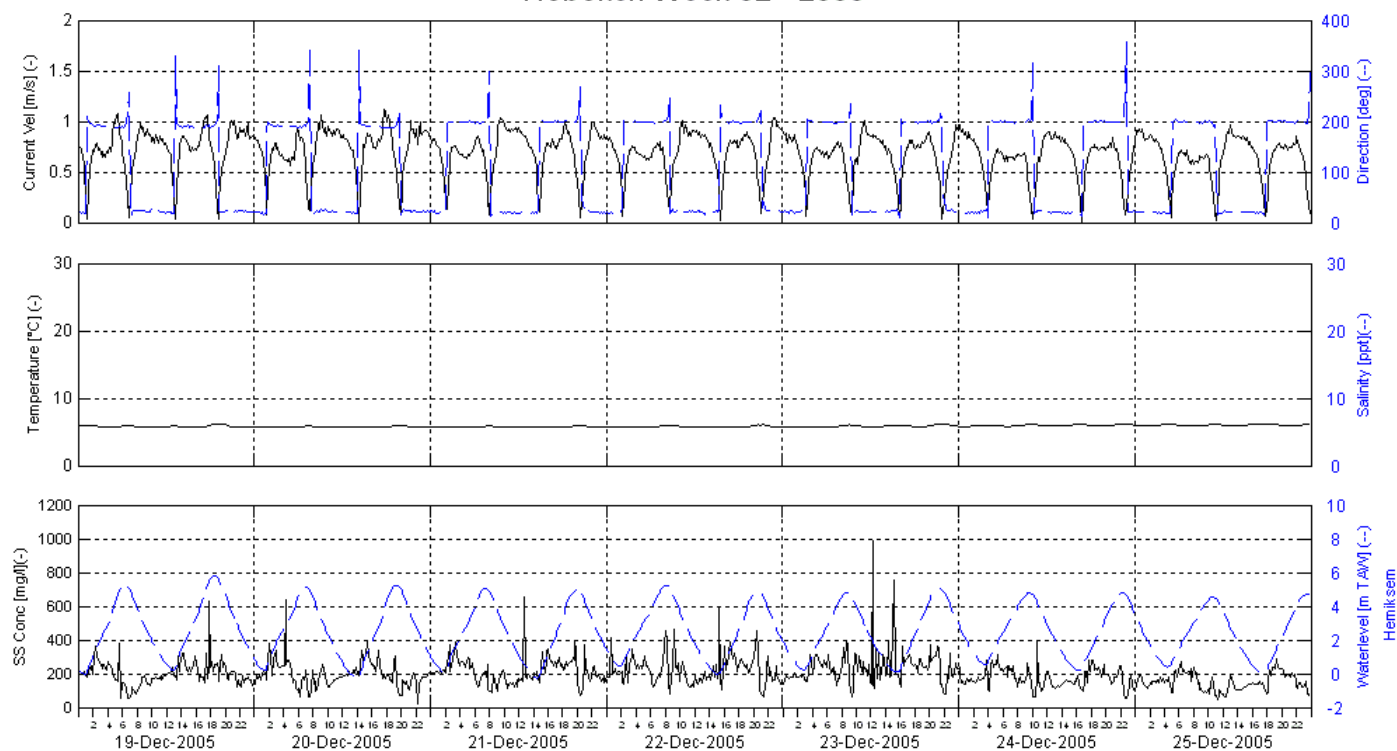
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 52 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

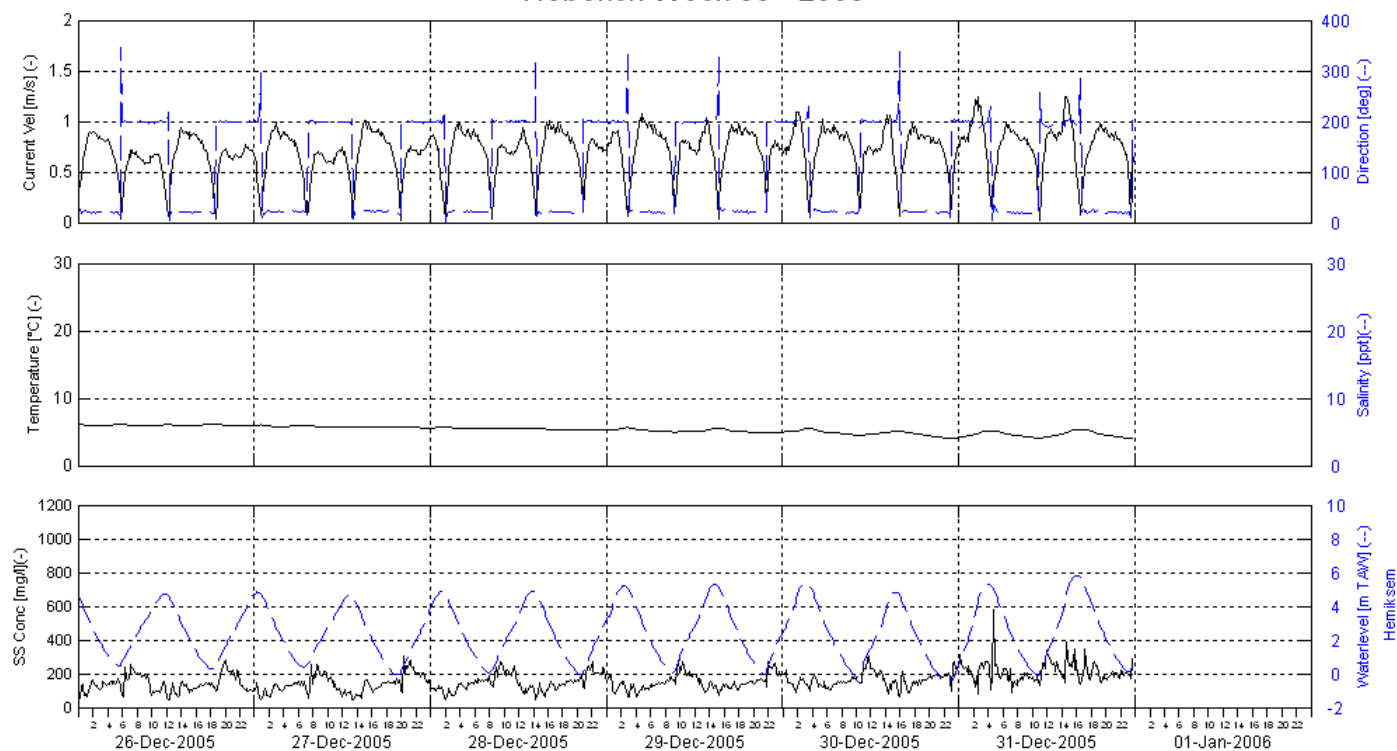
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Hoboken Week 53 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Hoboken 2m above bottom (-5m TAW)

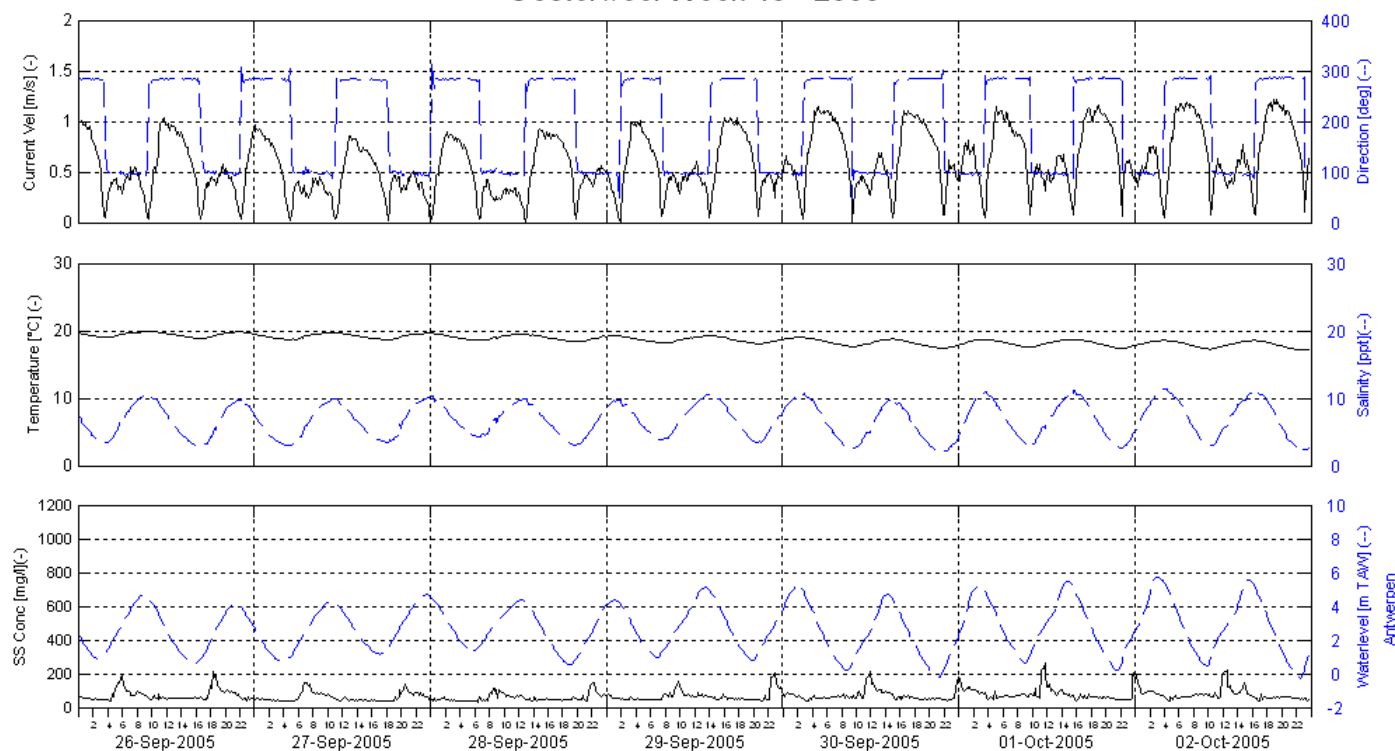
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

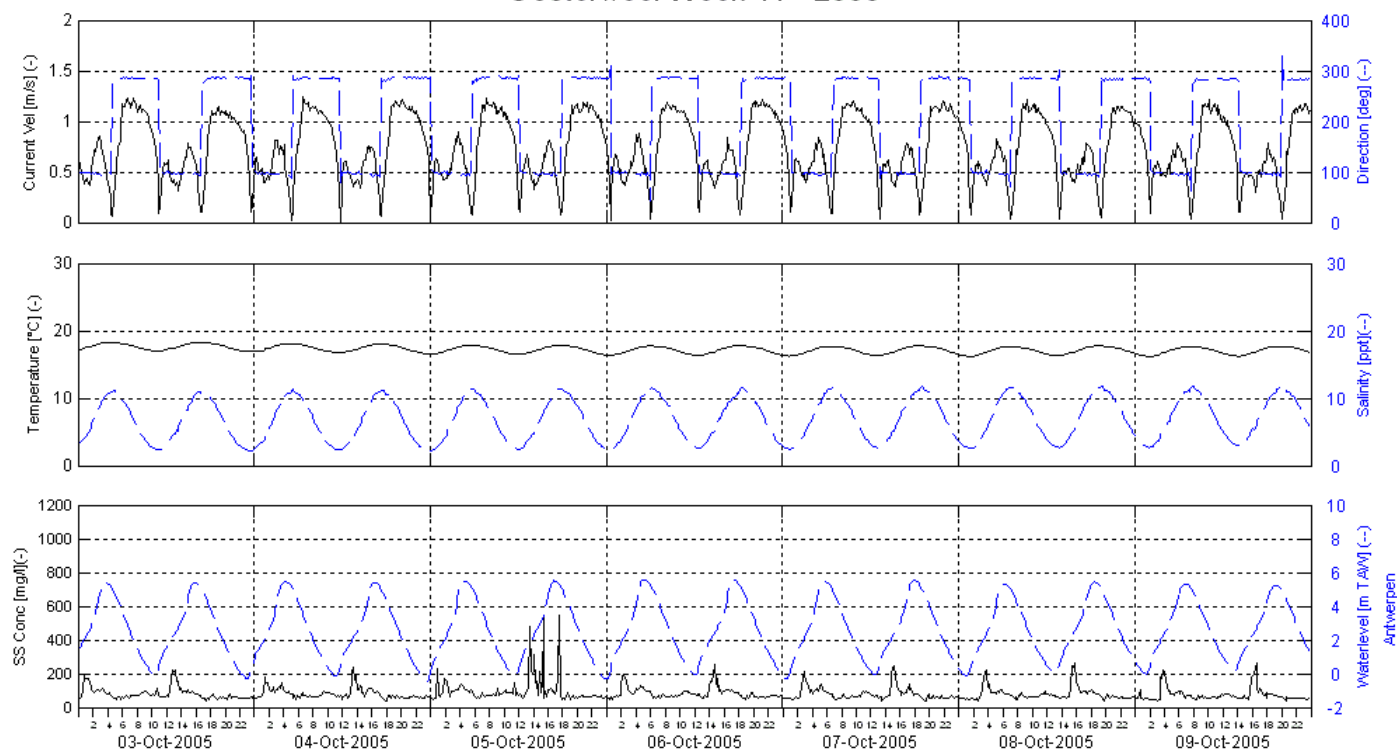
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 41 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

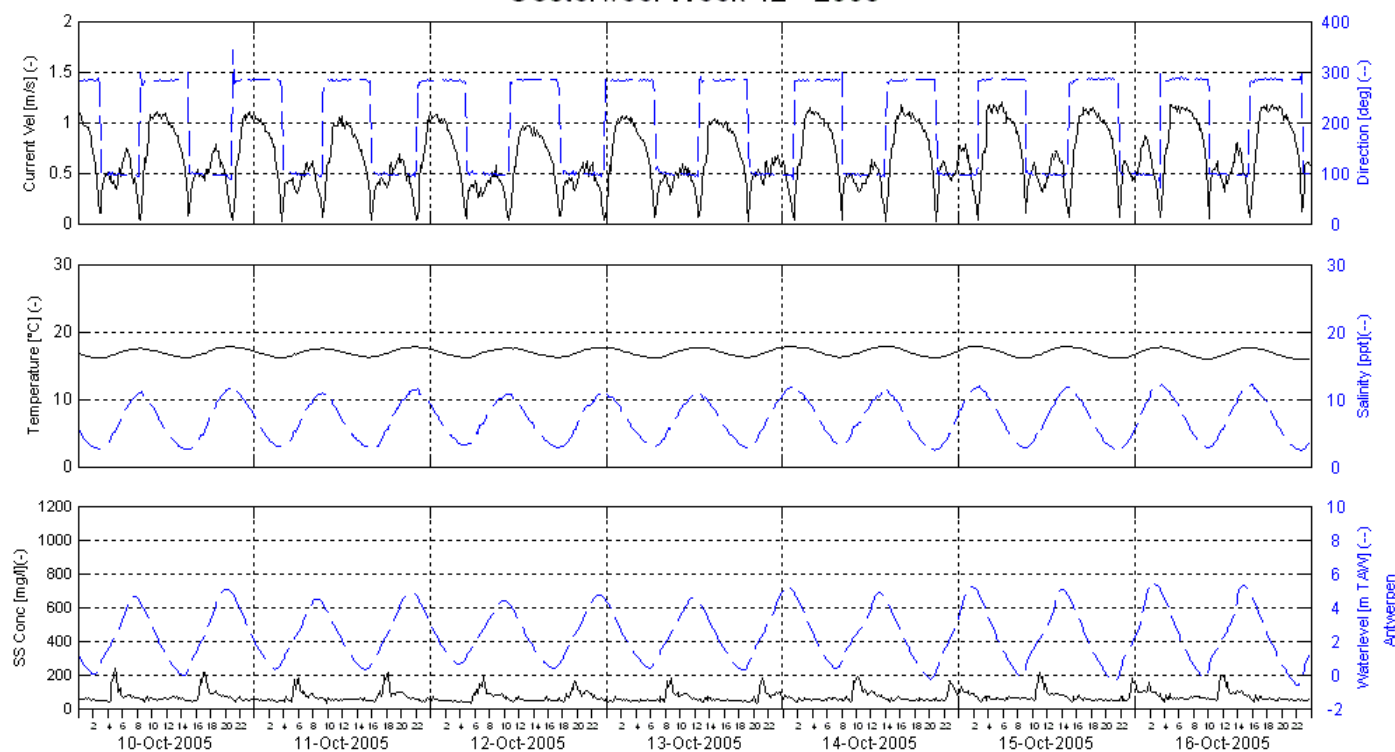
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 42 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

In association with:

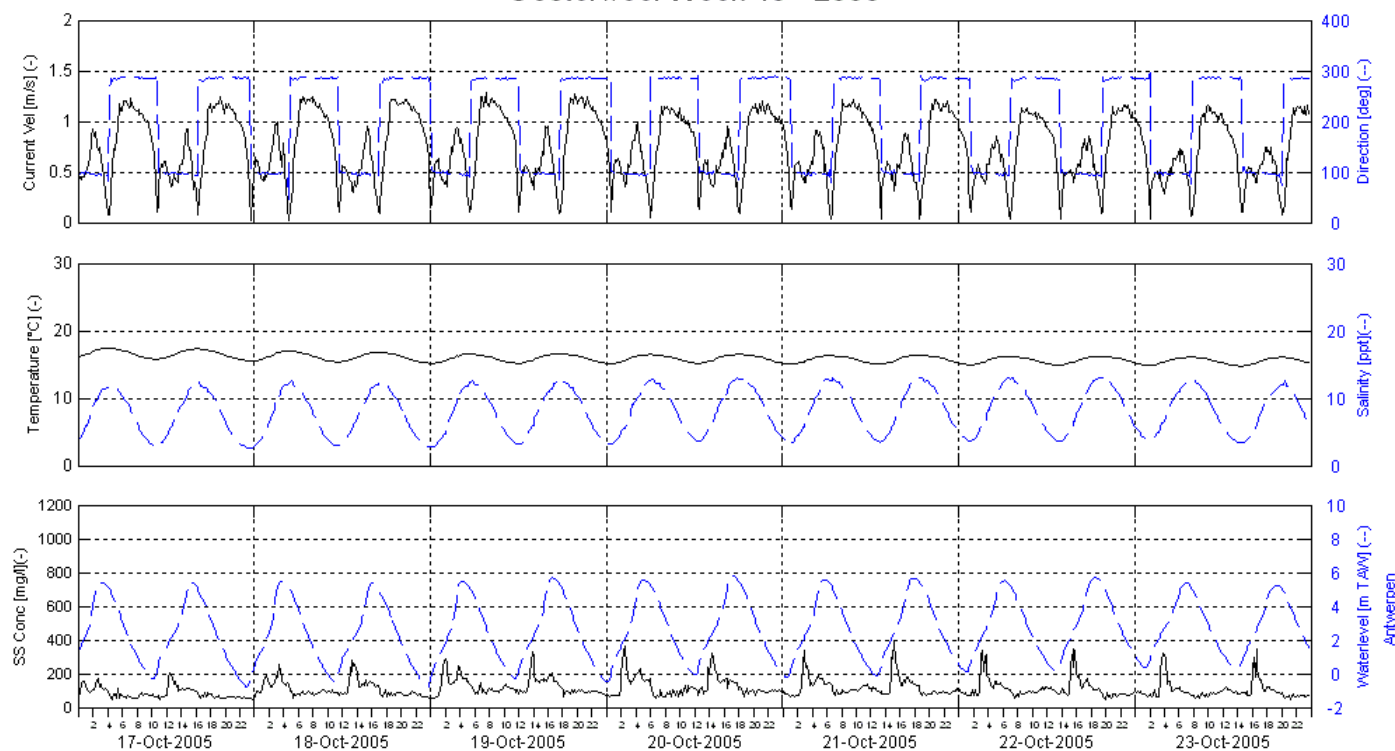


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 43 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

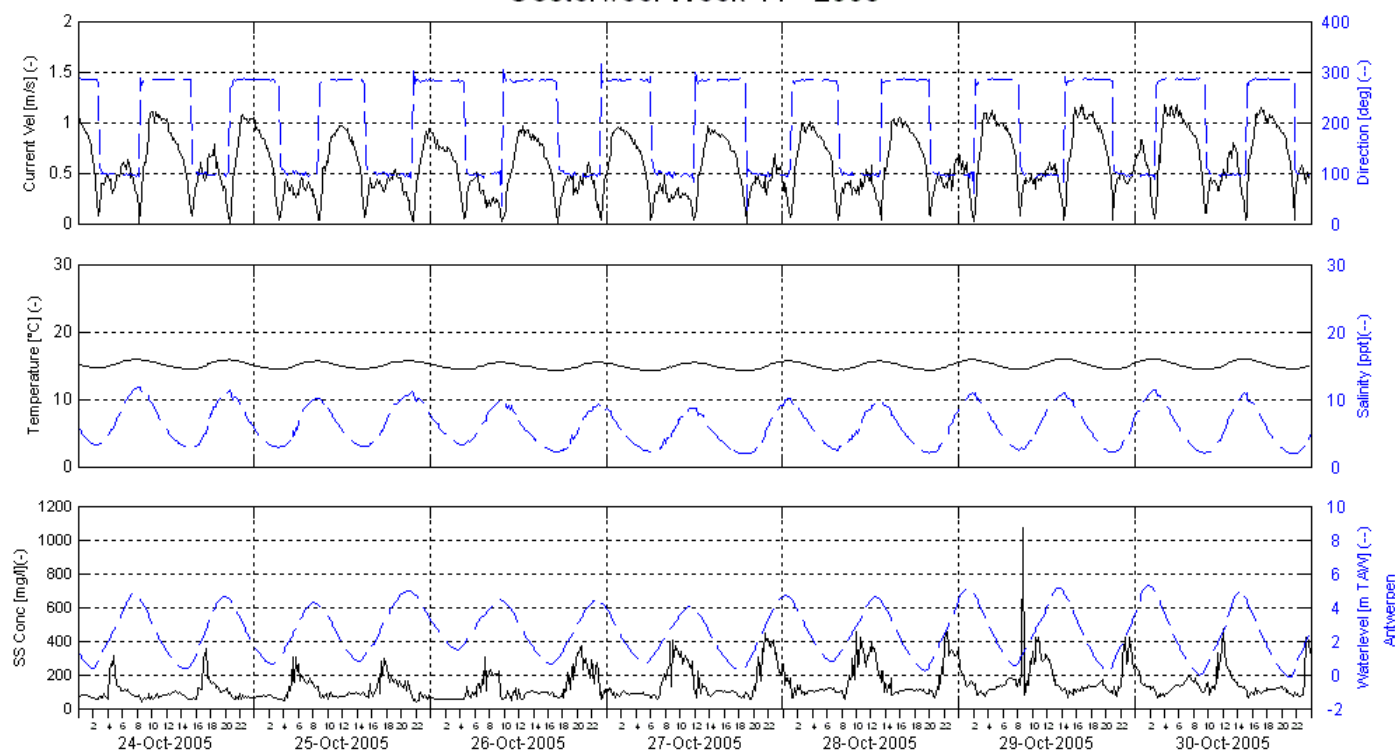
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 44 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

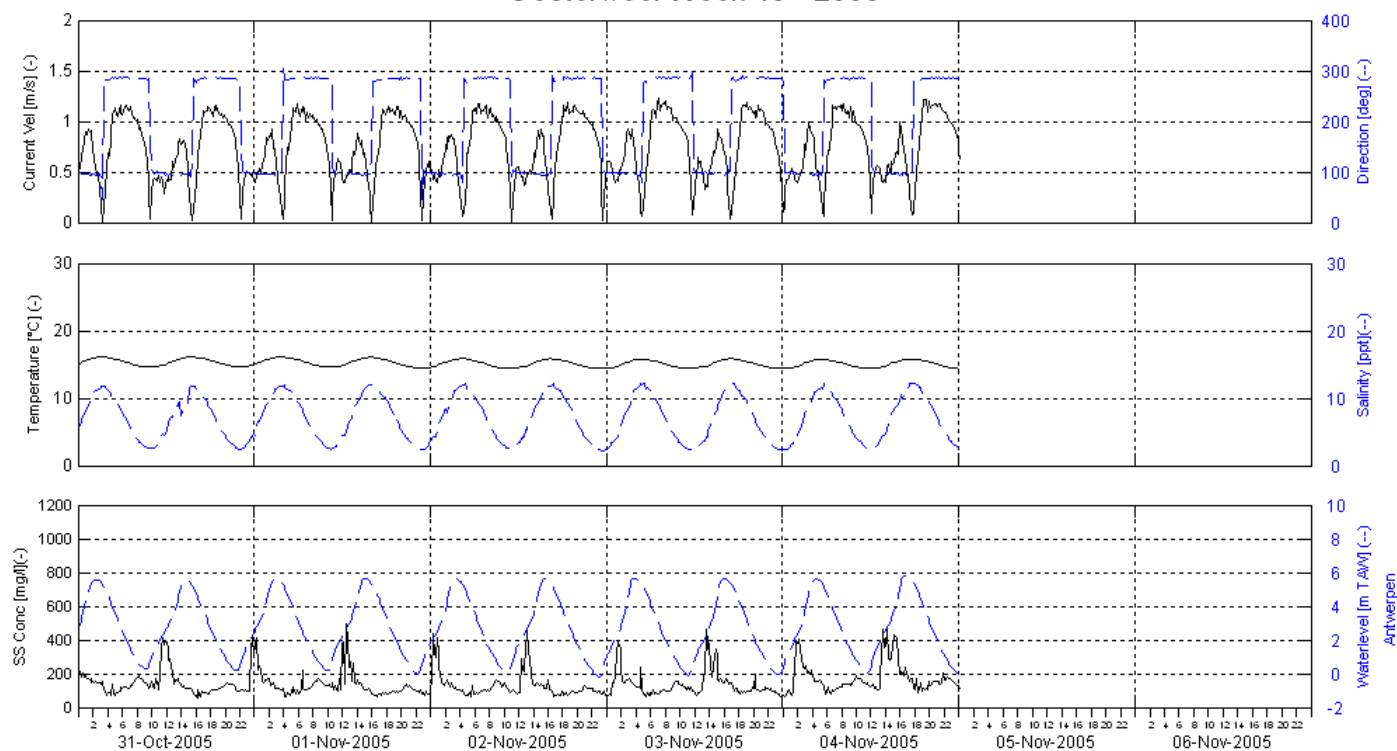
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 45 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

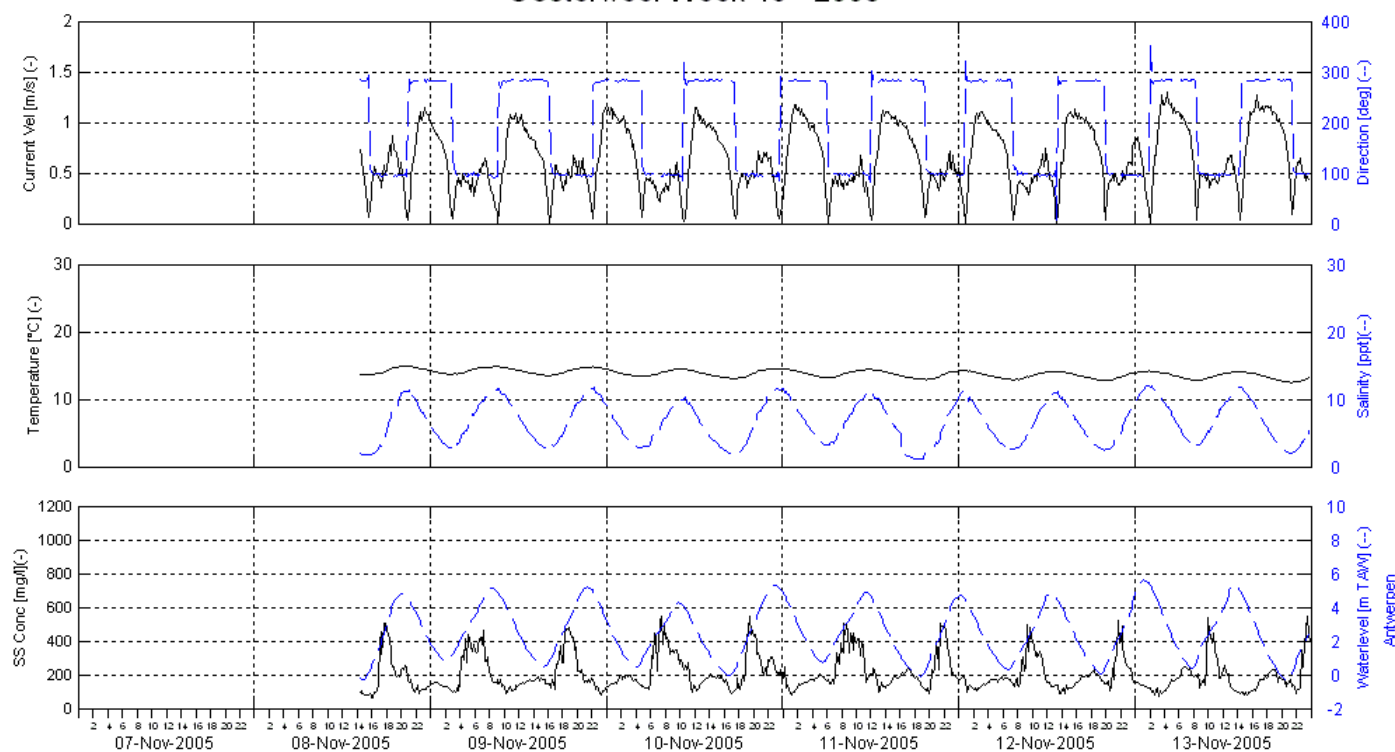
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 46 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

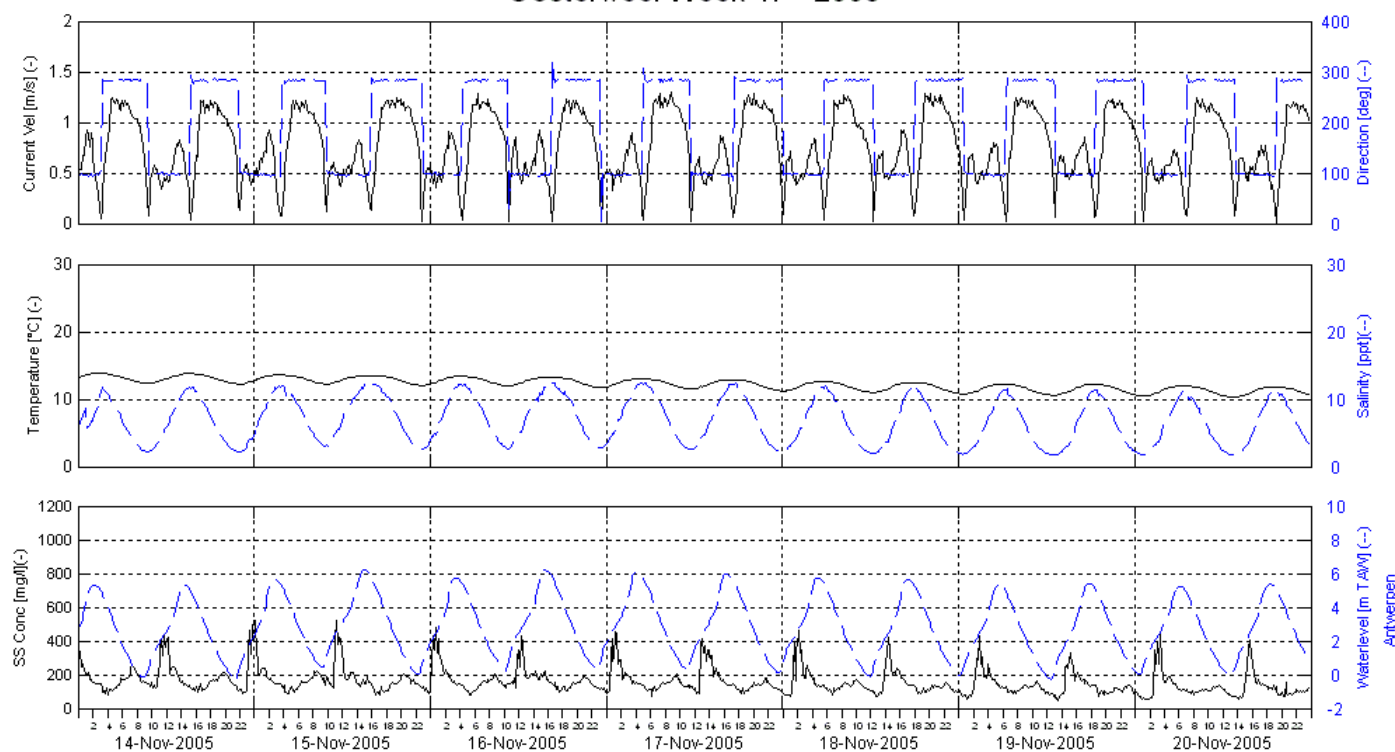
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 47 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

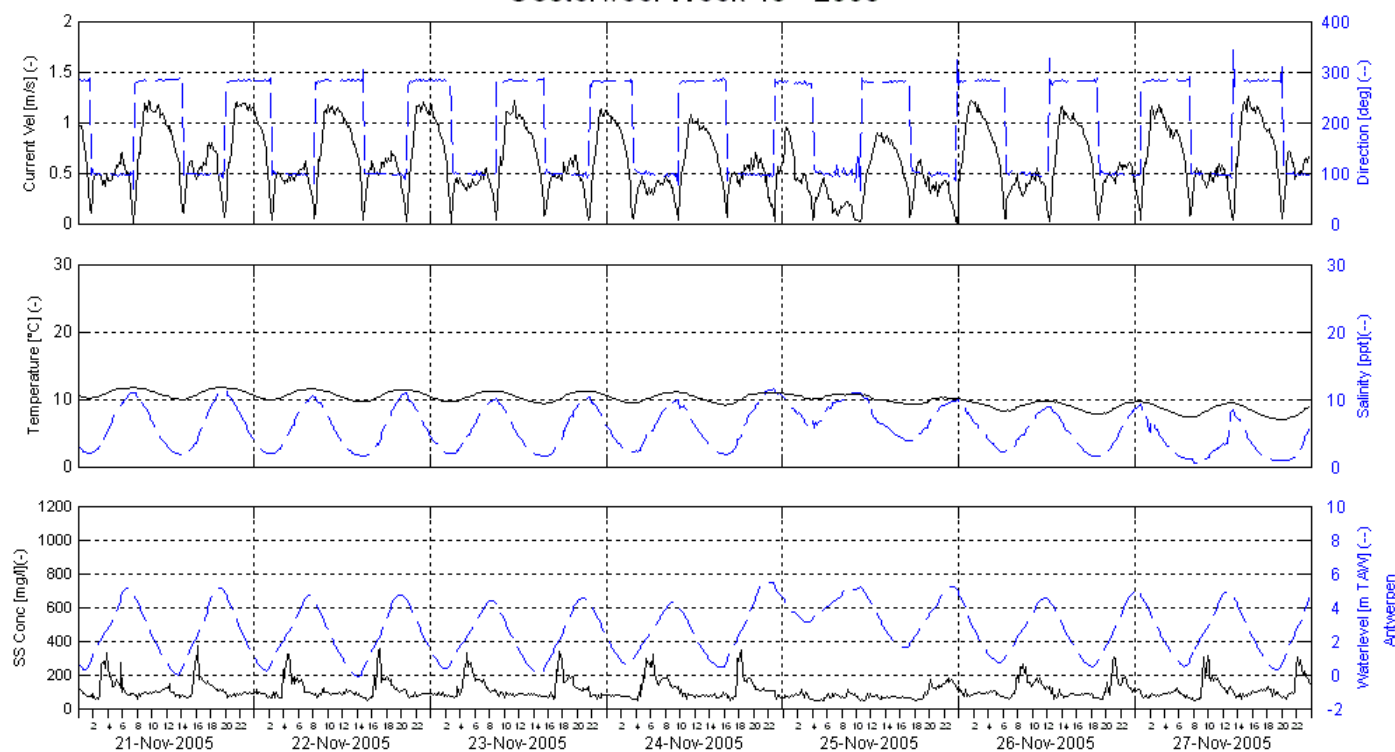
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 48 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

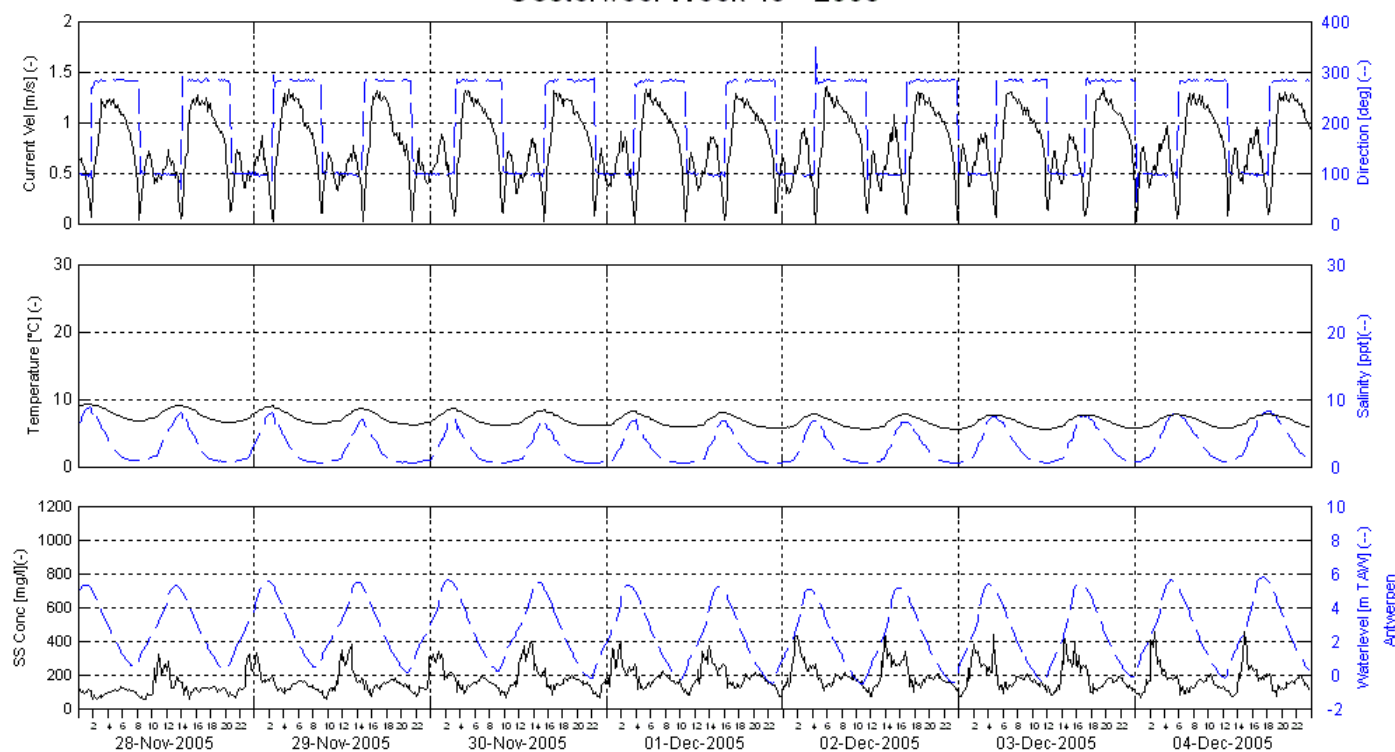
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 49 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

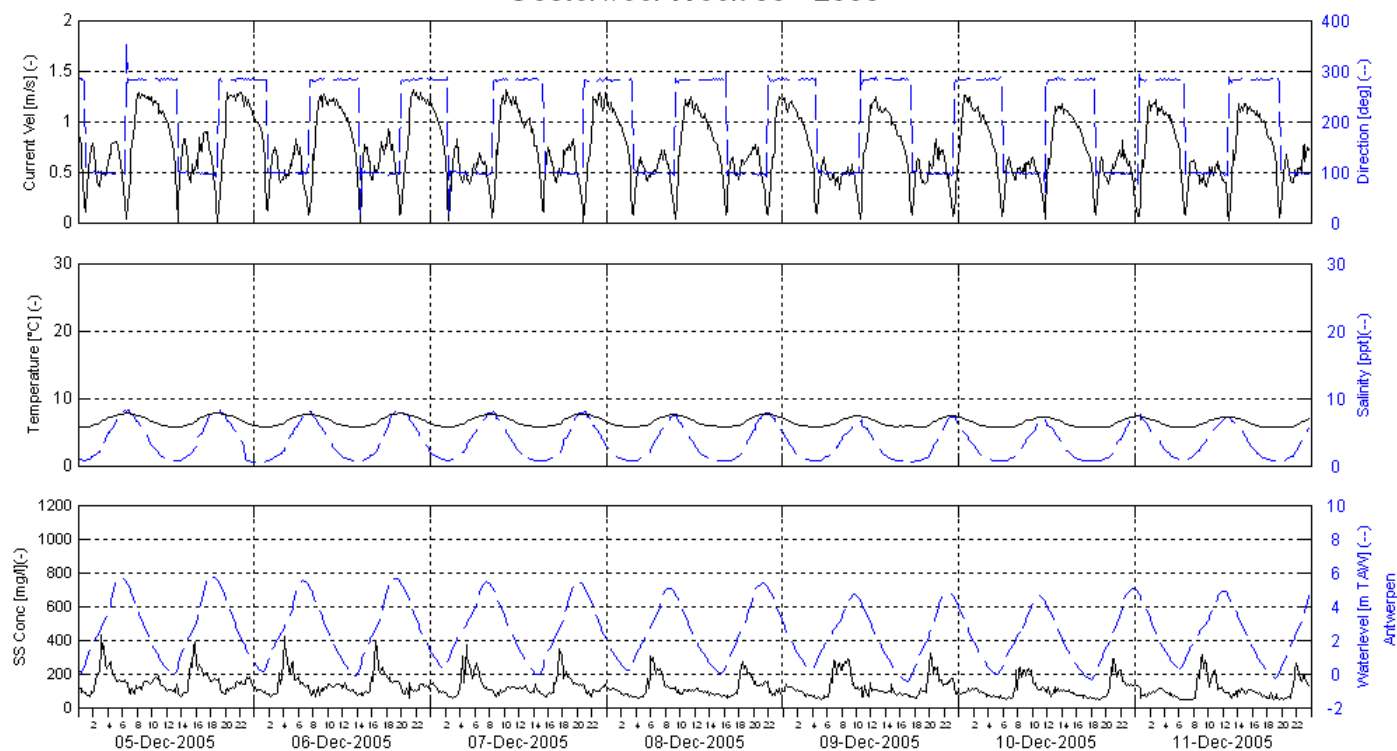
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 50 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

In association with:

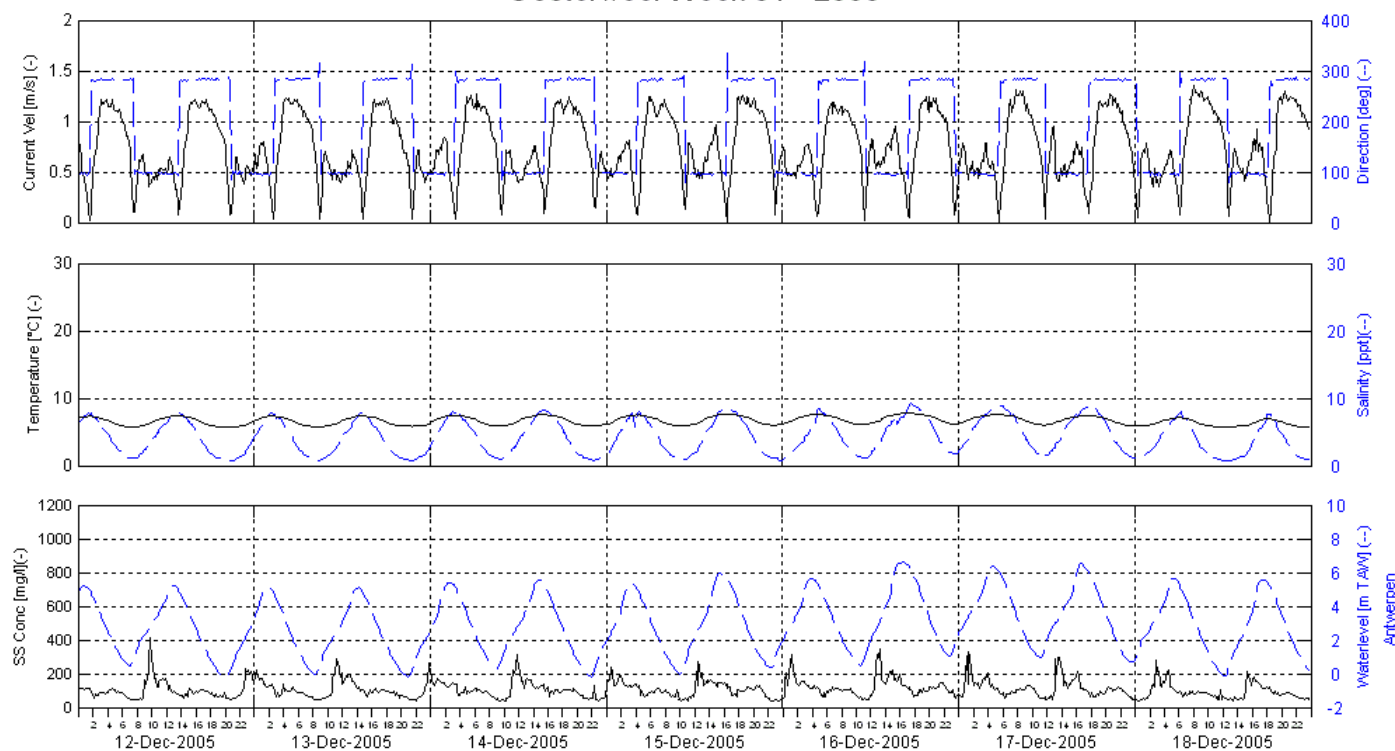


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 51 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

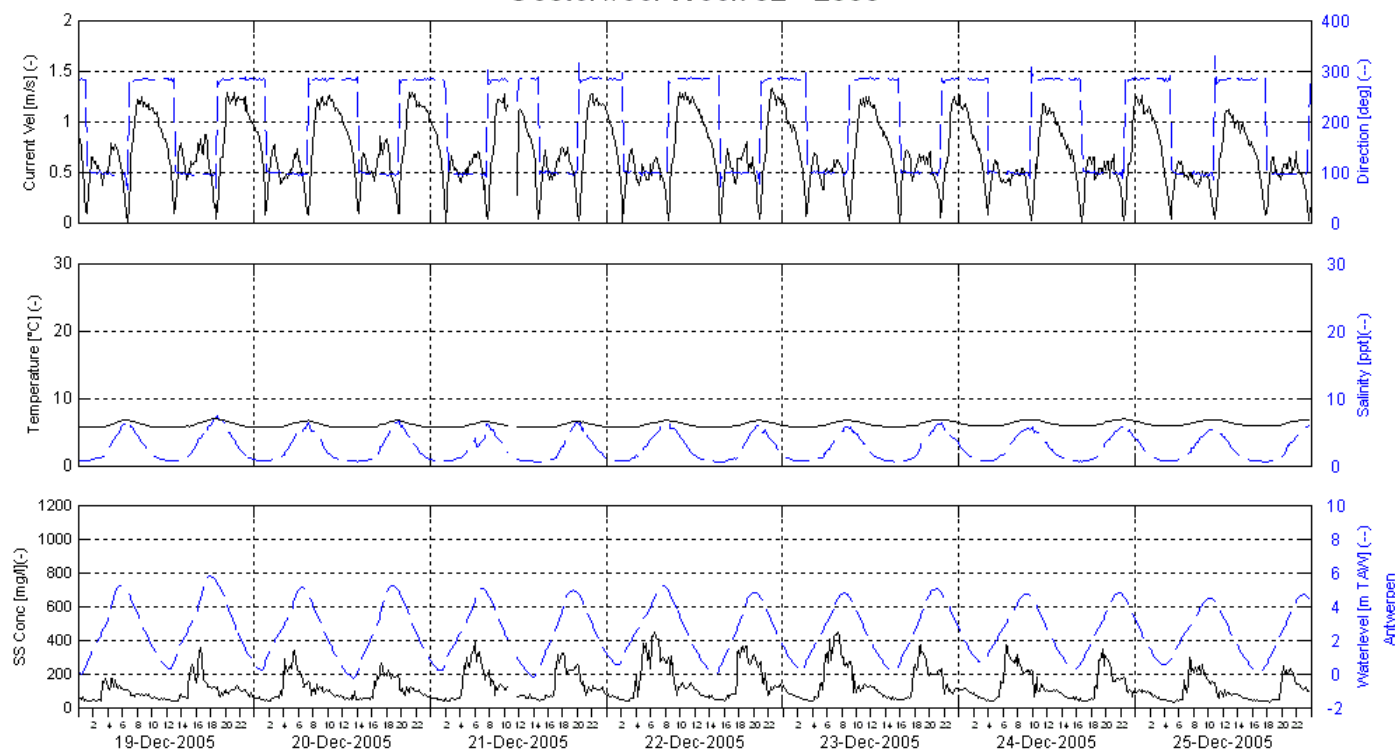
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 52 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

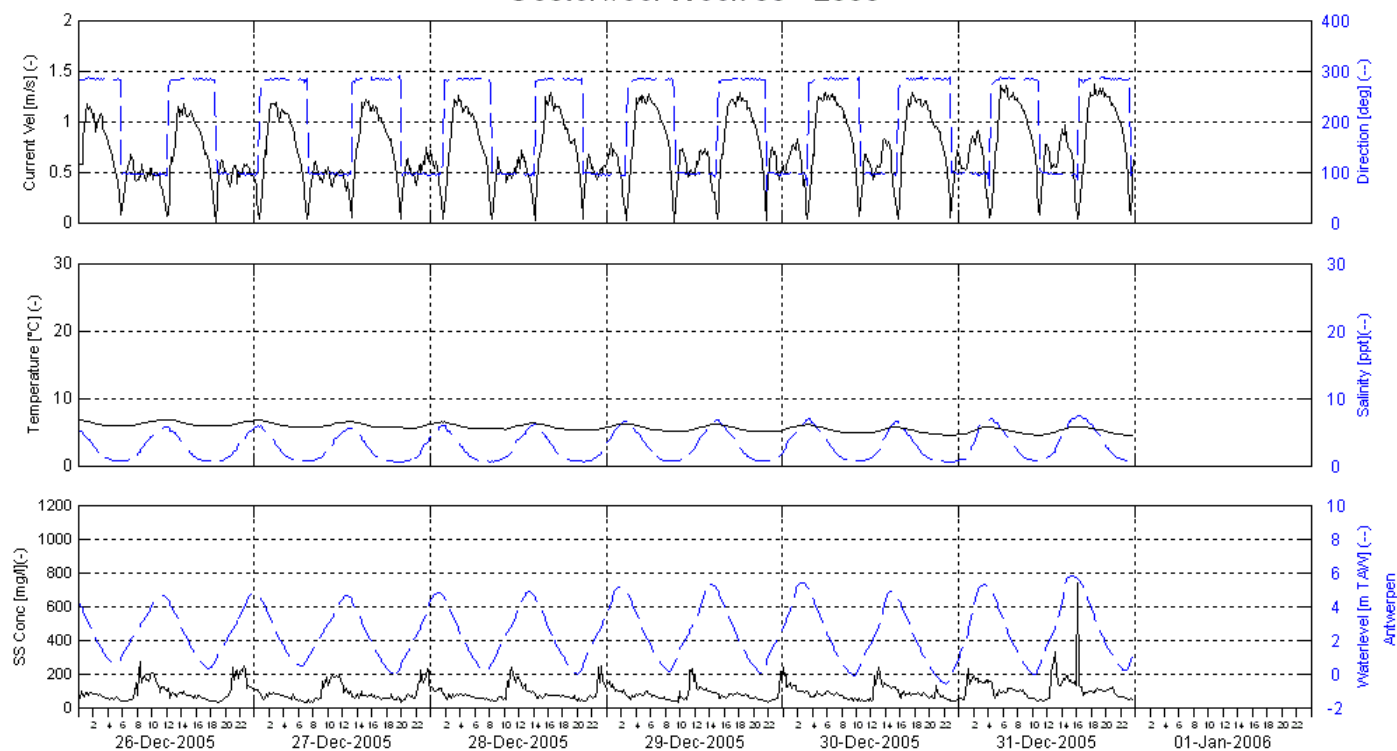
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 53 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 4m above bottom (-7m TAW)

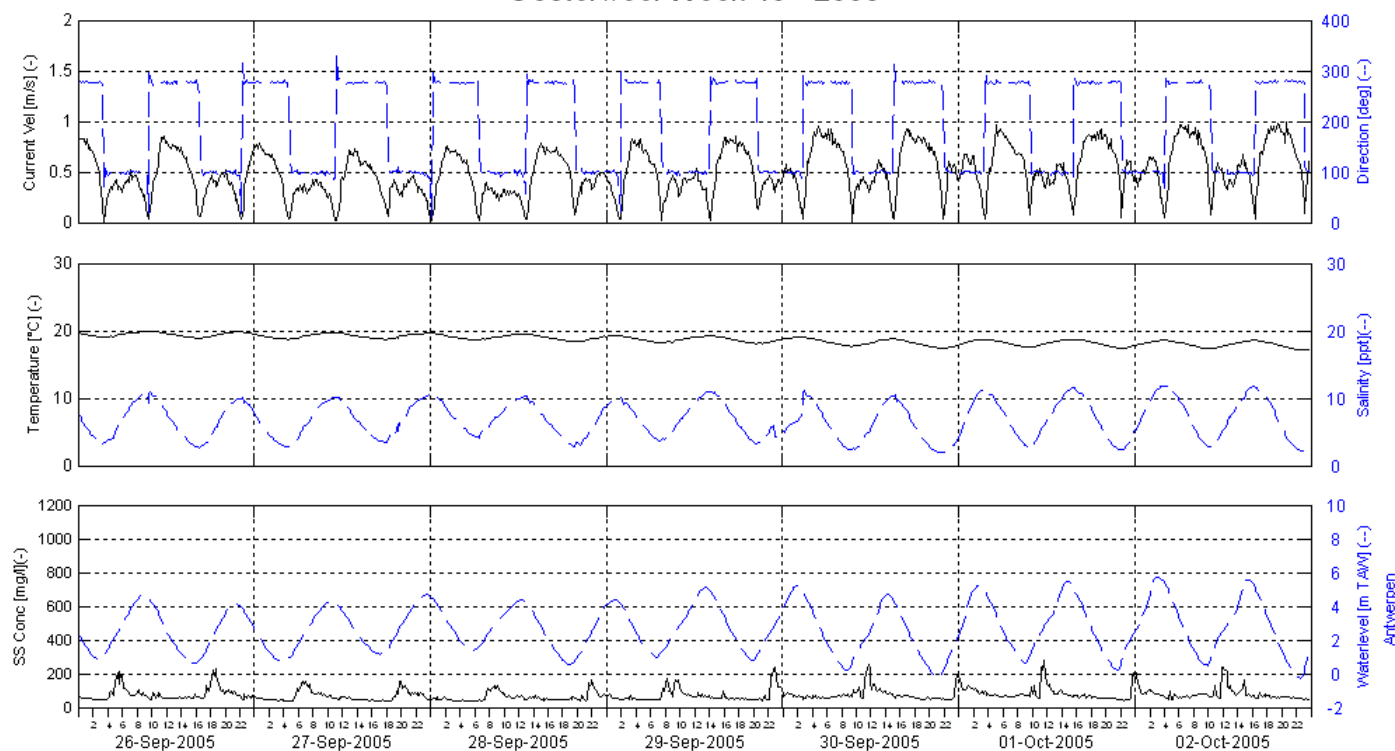
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

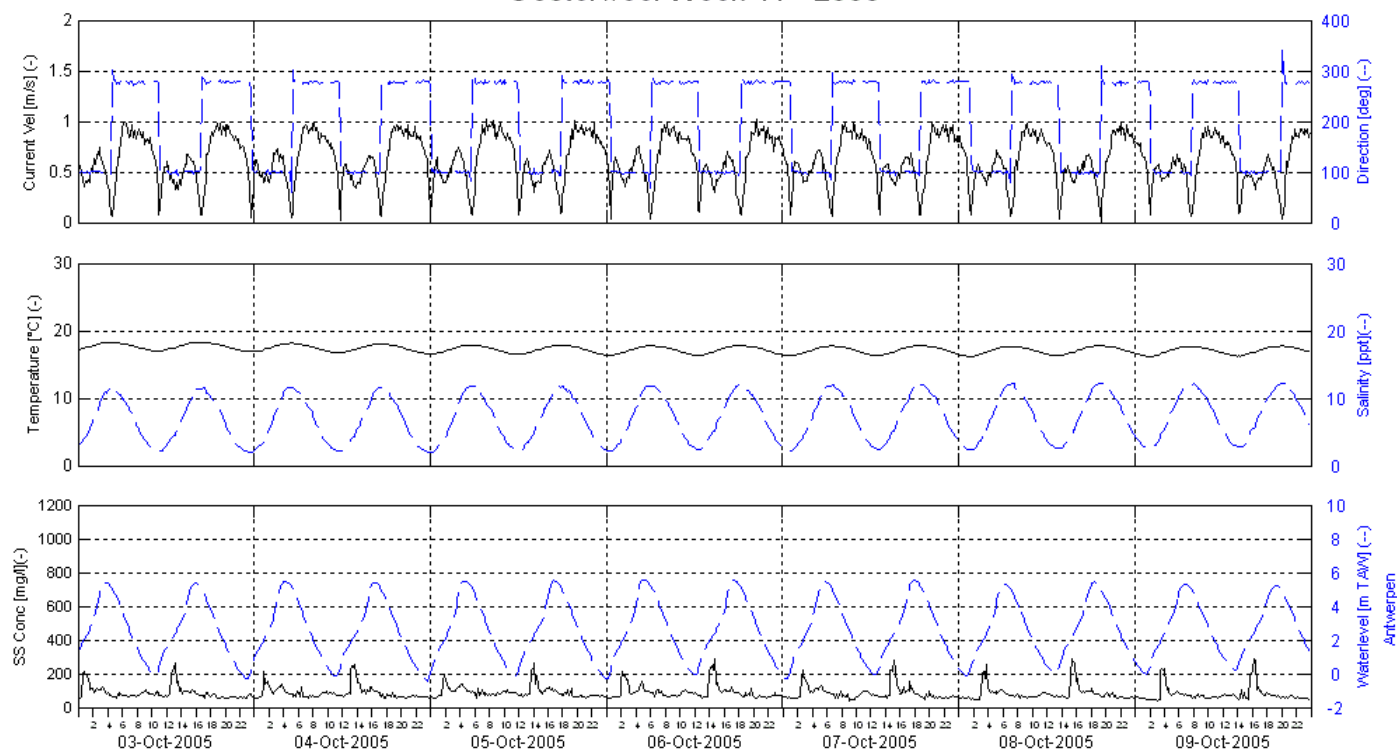
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 41 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

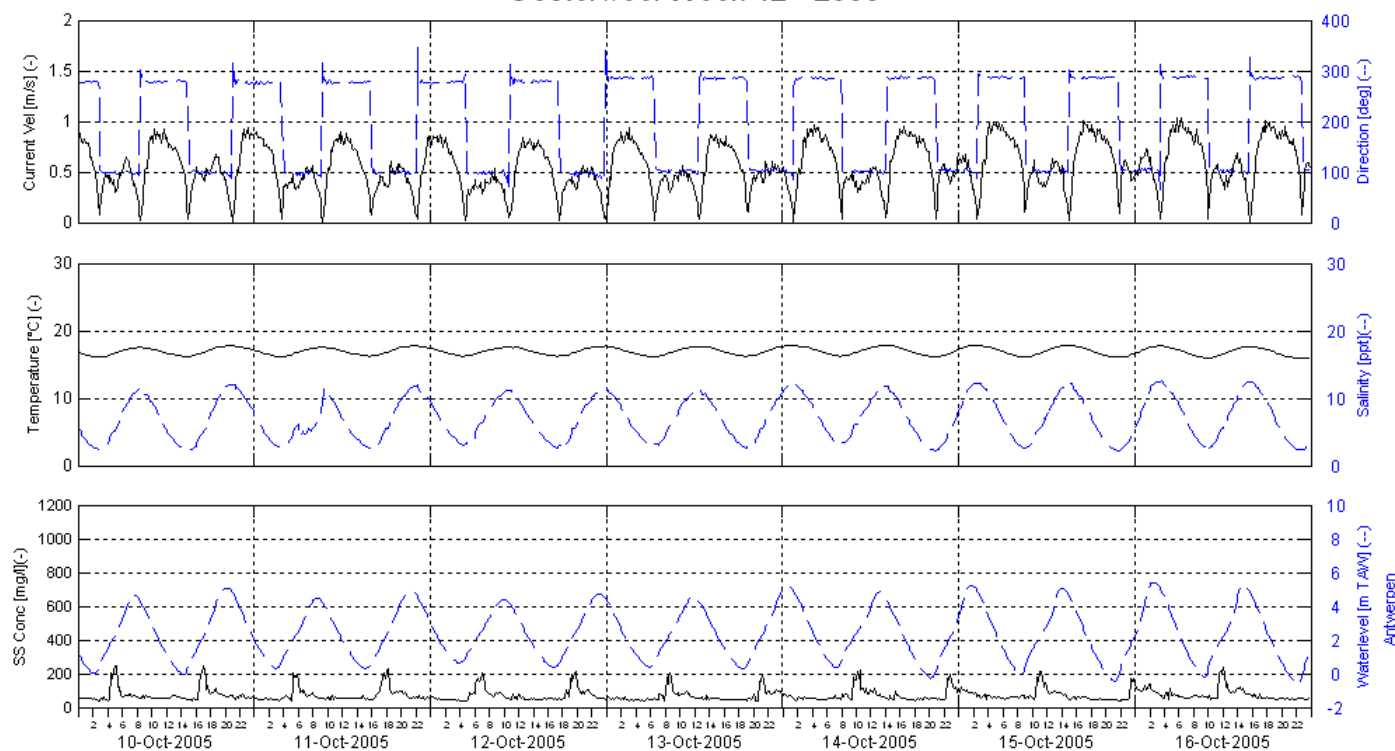
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 42 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

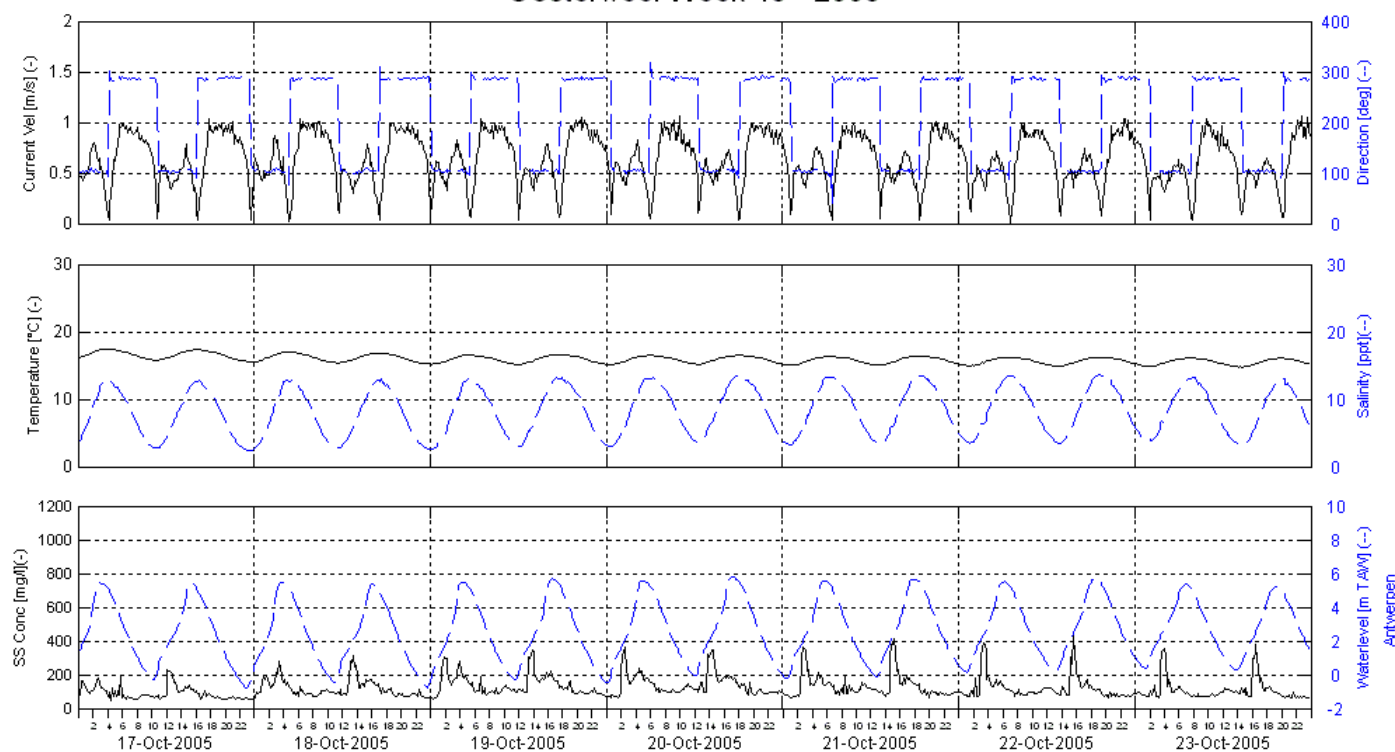
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 43 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

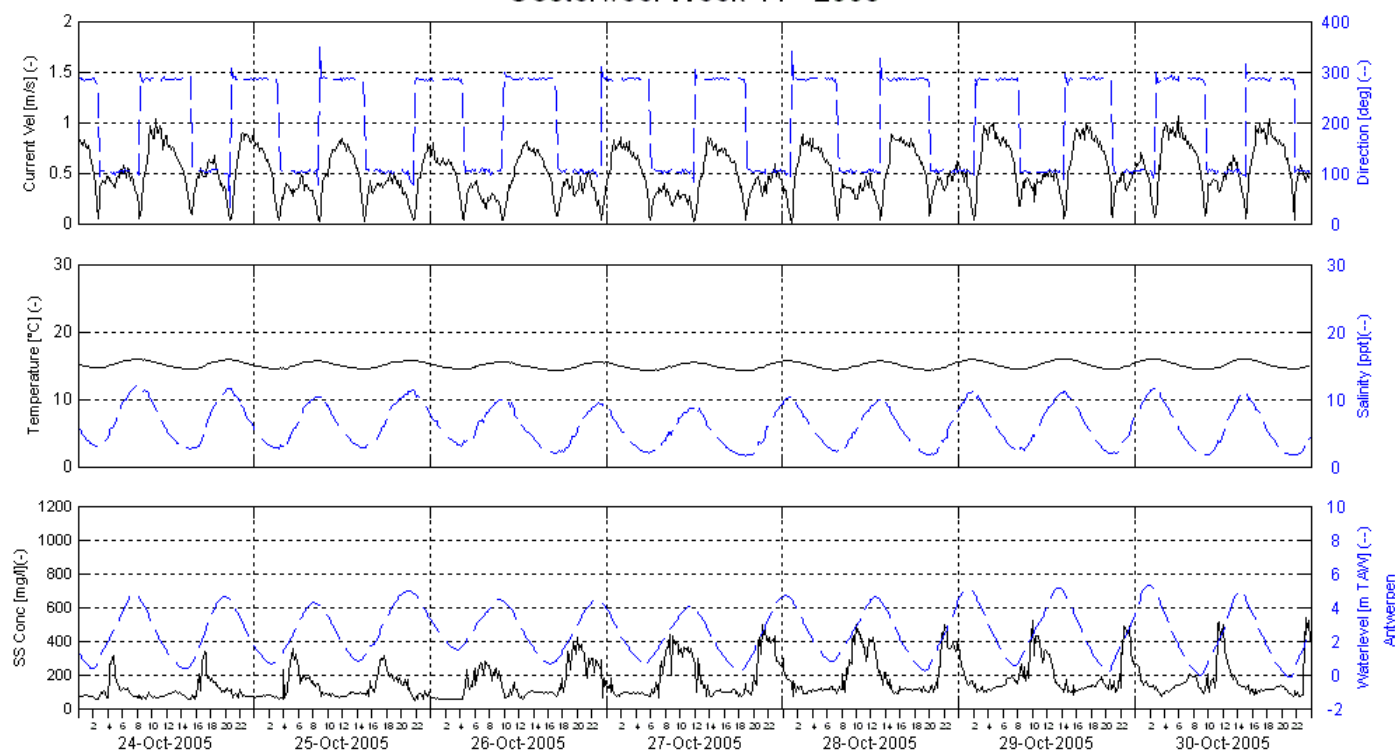
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 44 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

In association with:

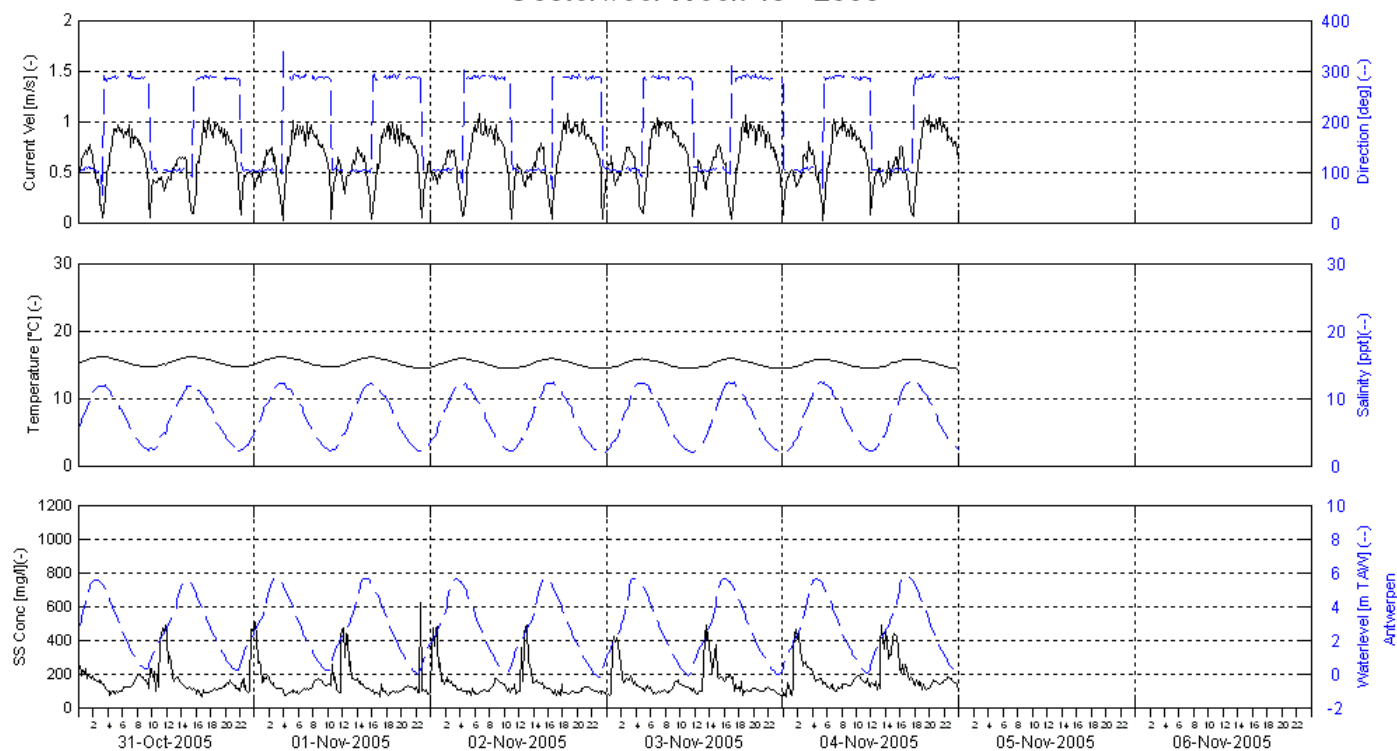


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 45 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

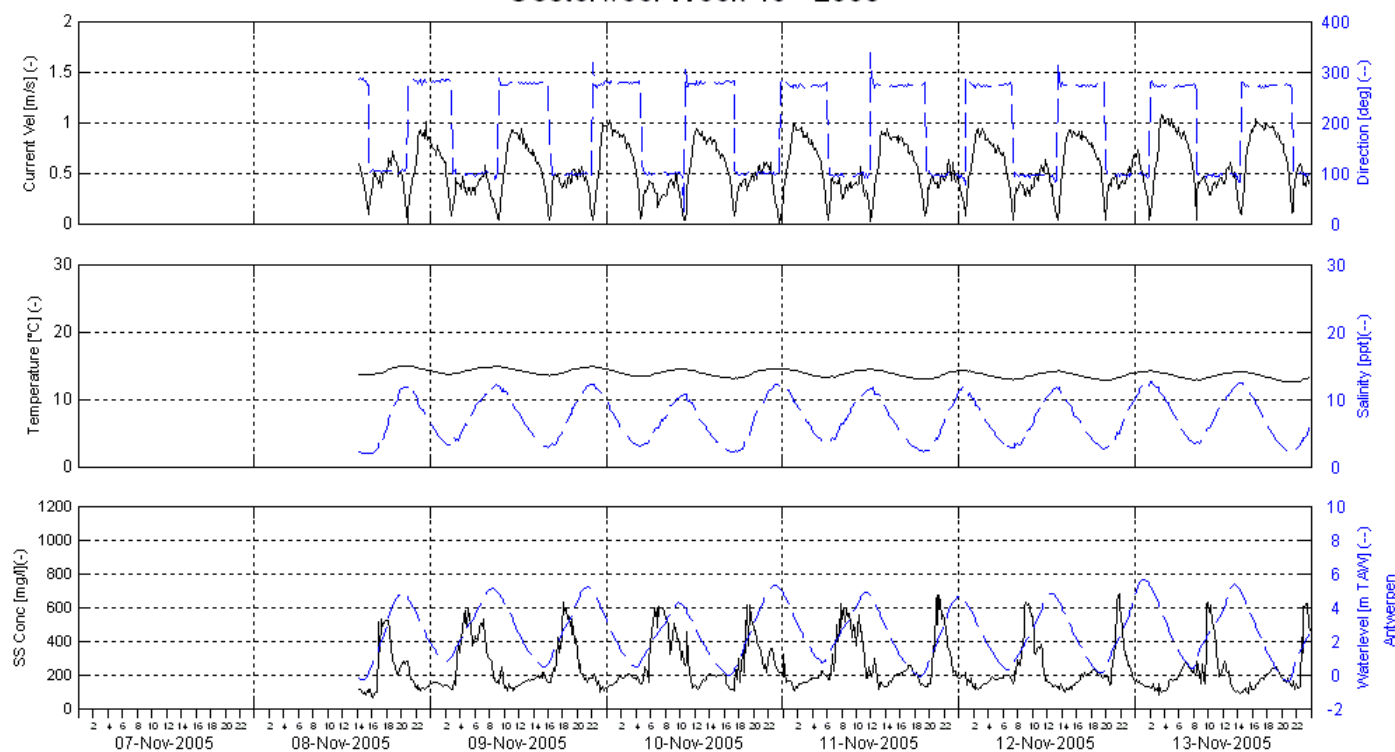
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 46 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

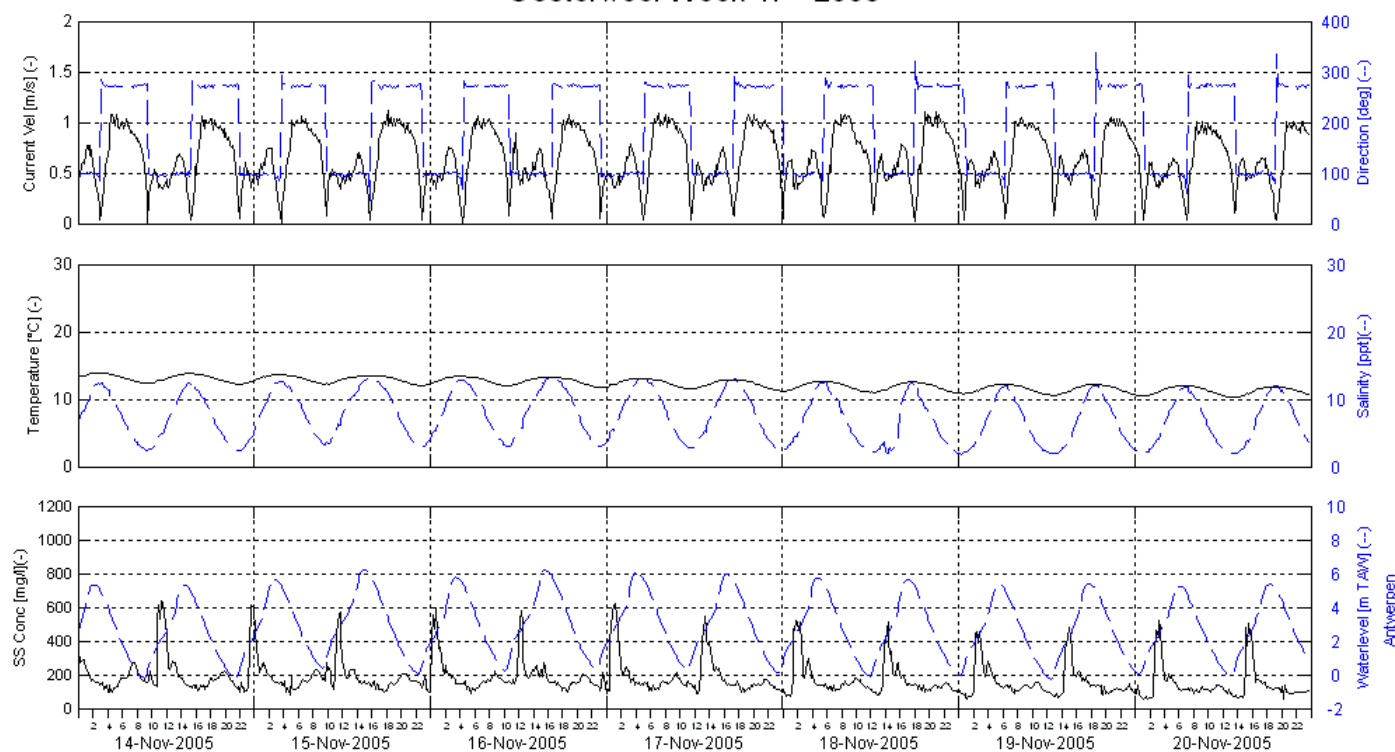
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 47 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

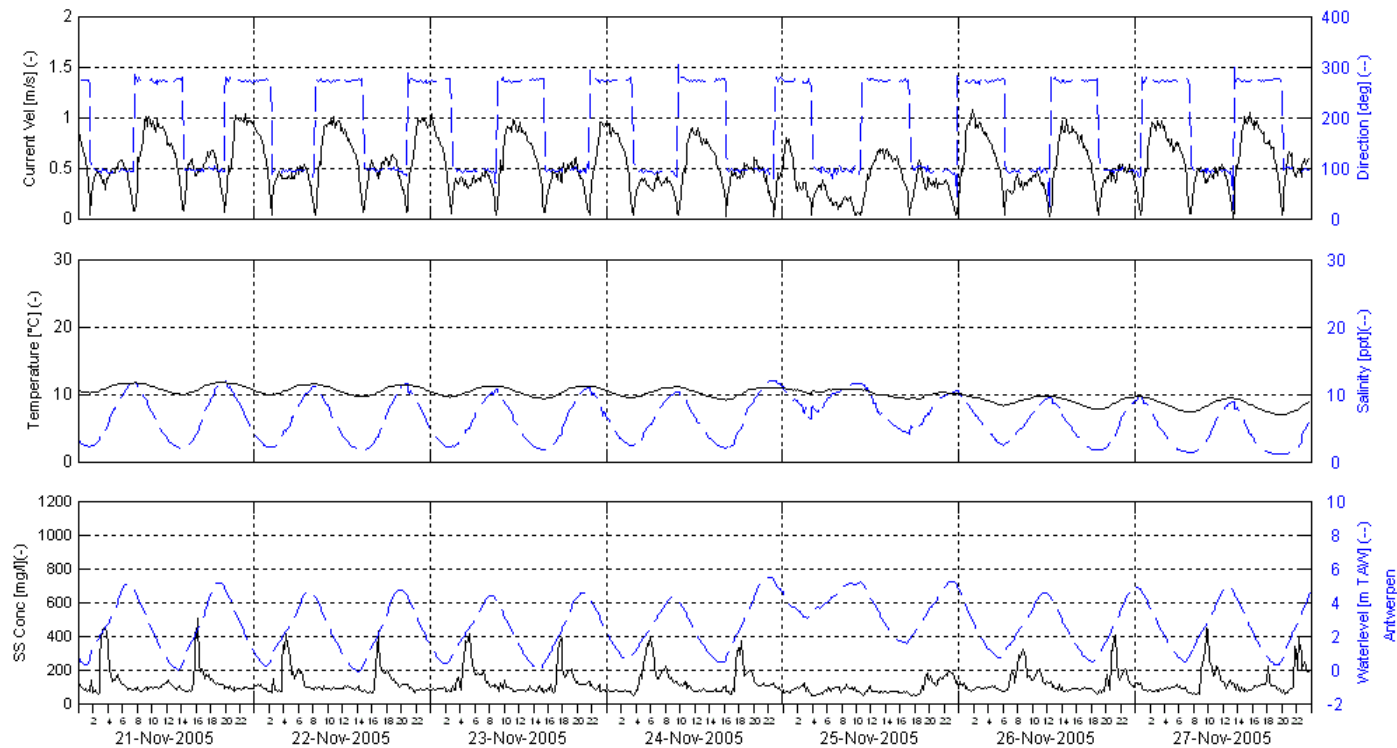
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 48 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

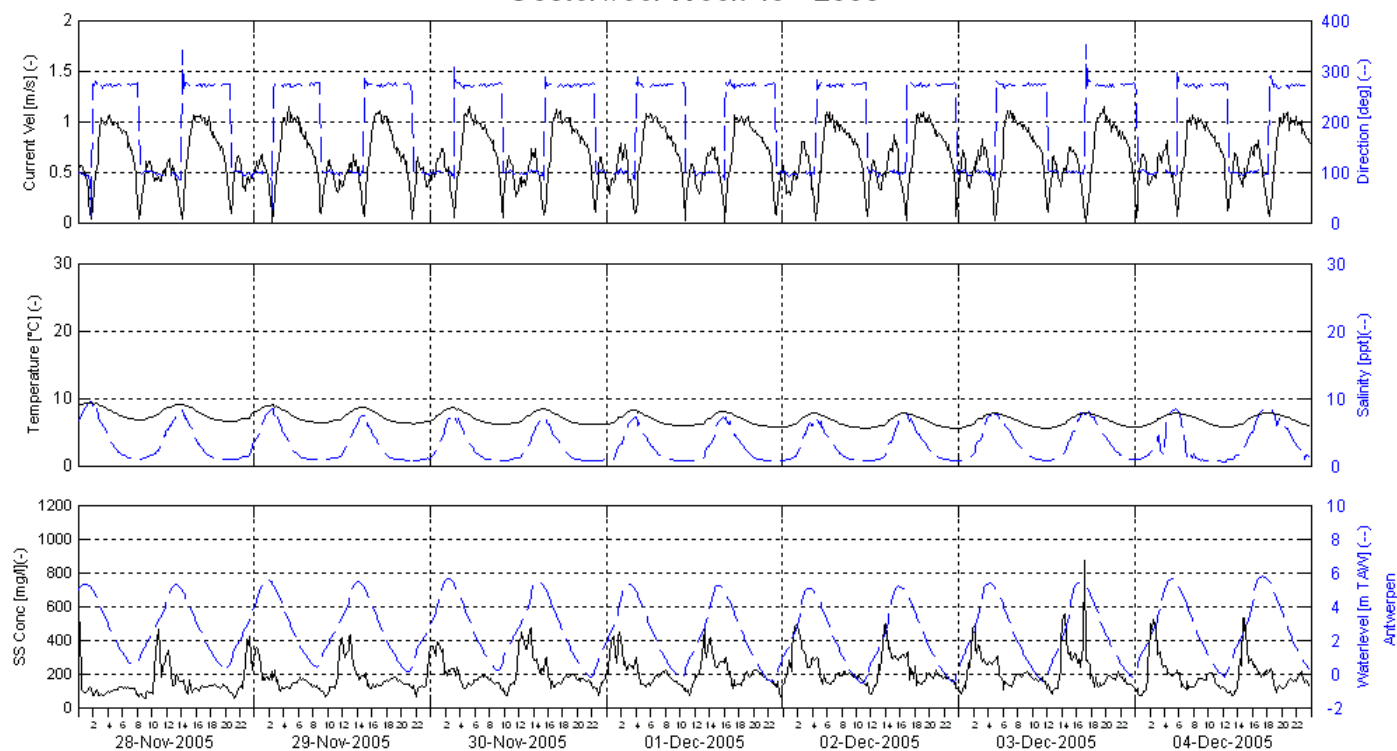
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 49 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

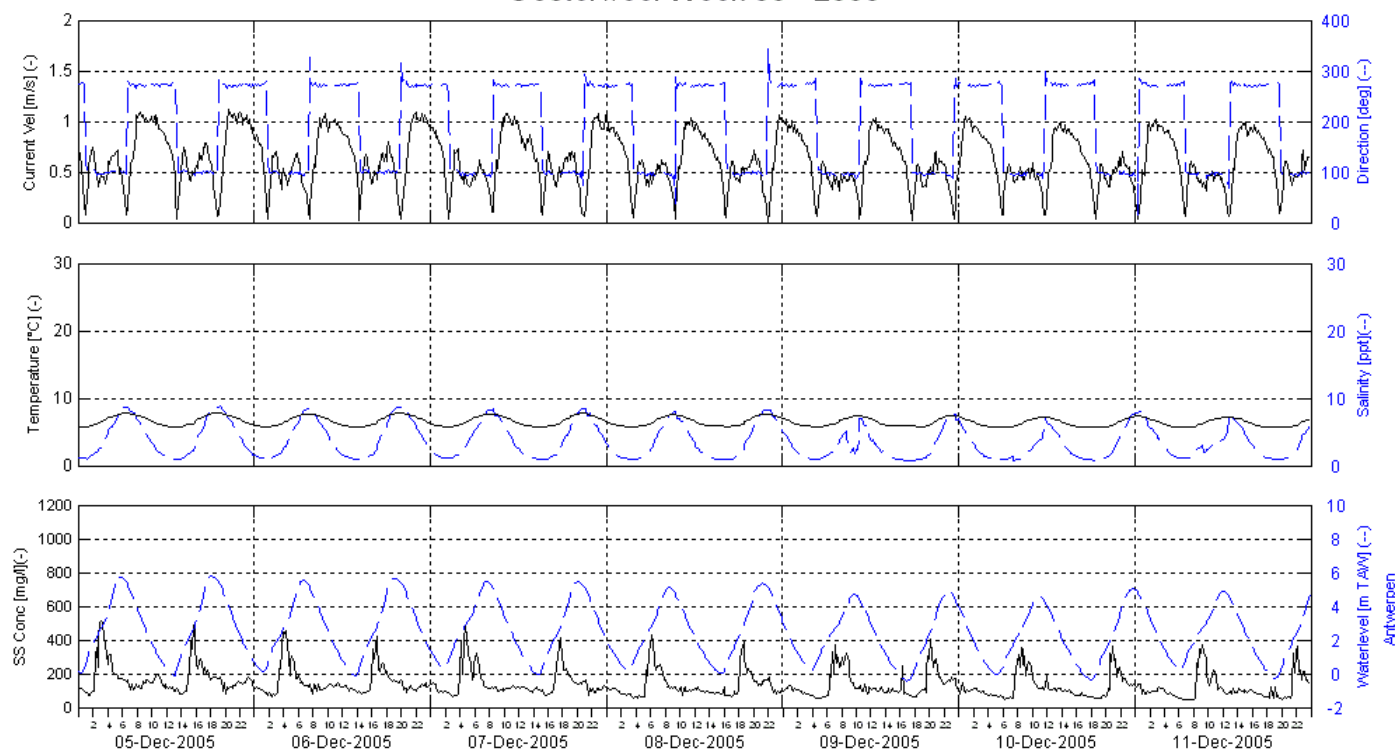
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 50 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

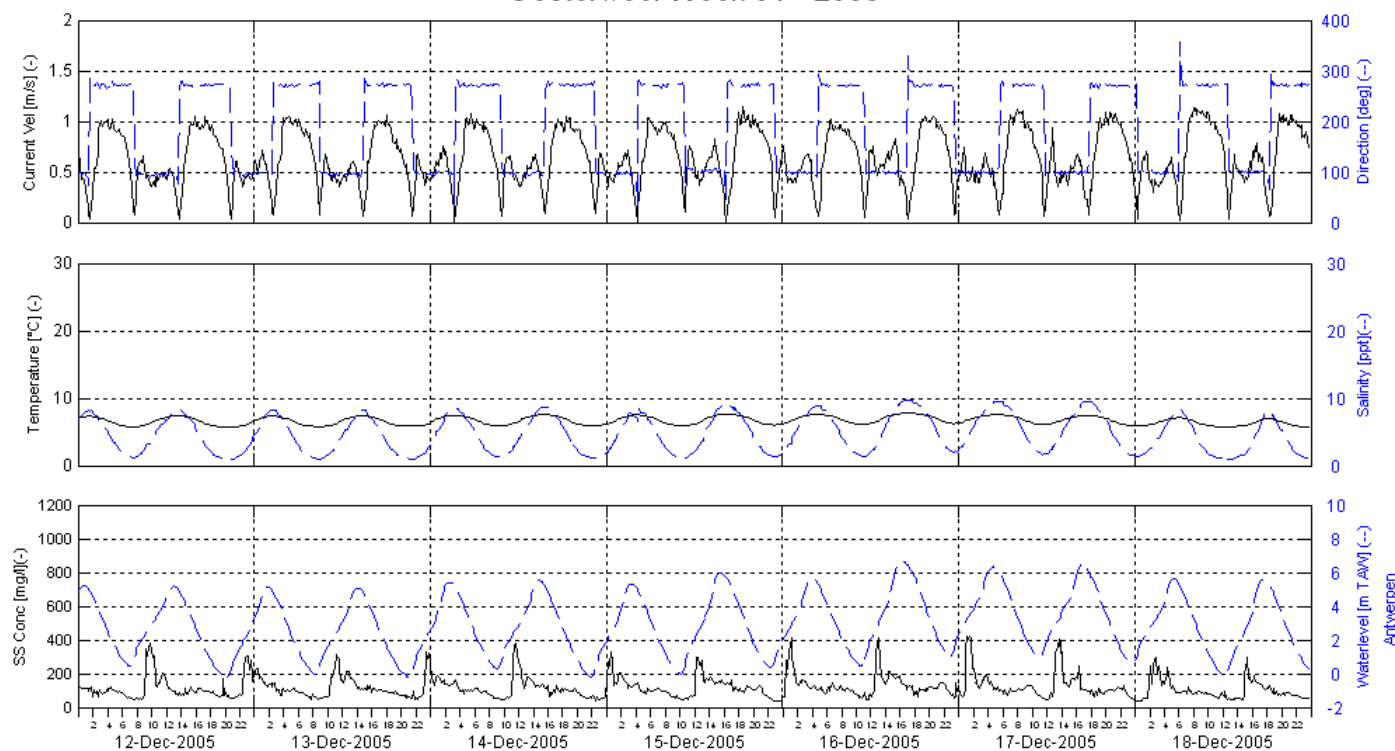
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 51 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

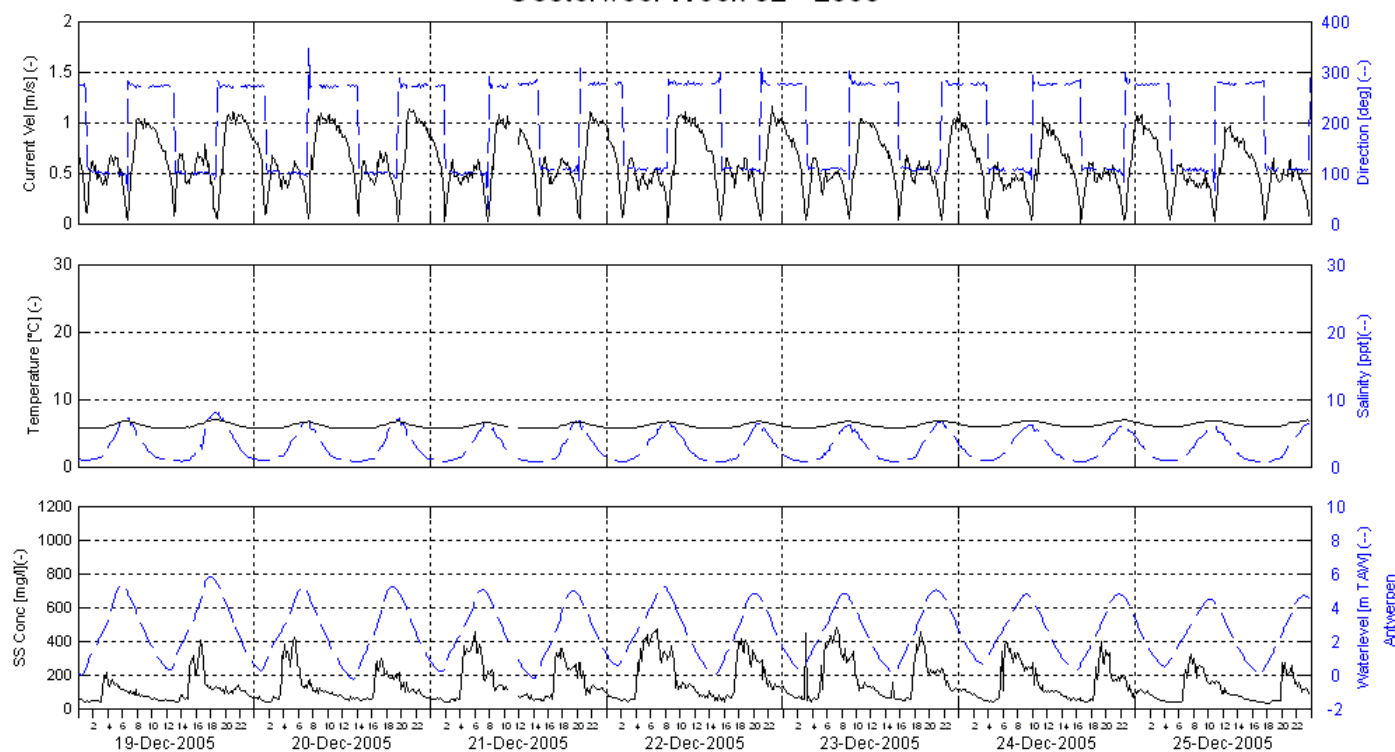
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 52 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

In association with:

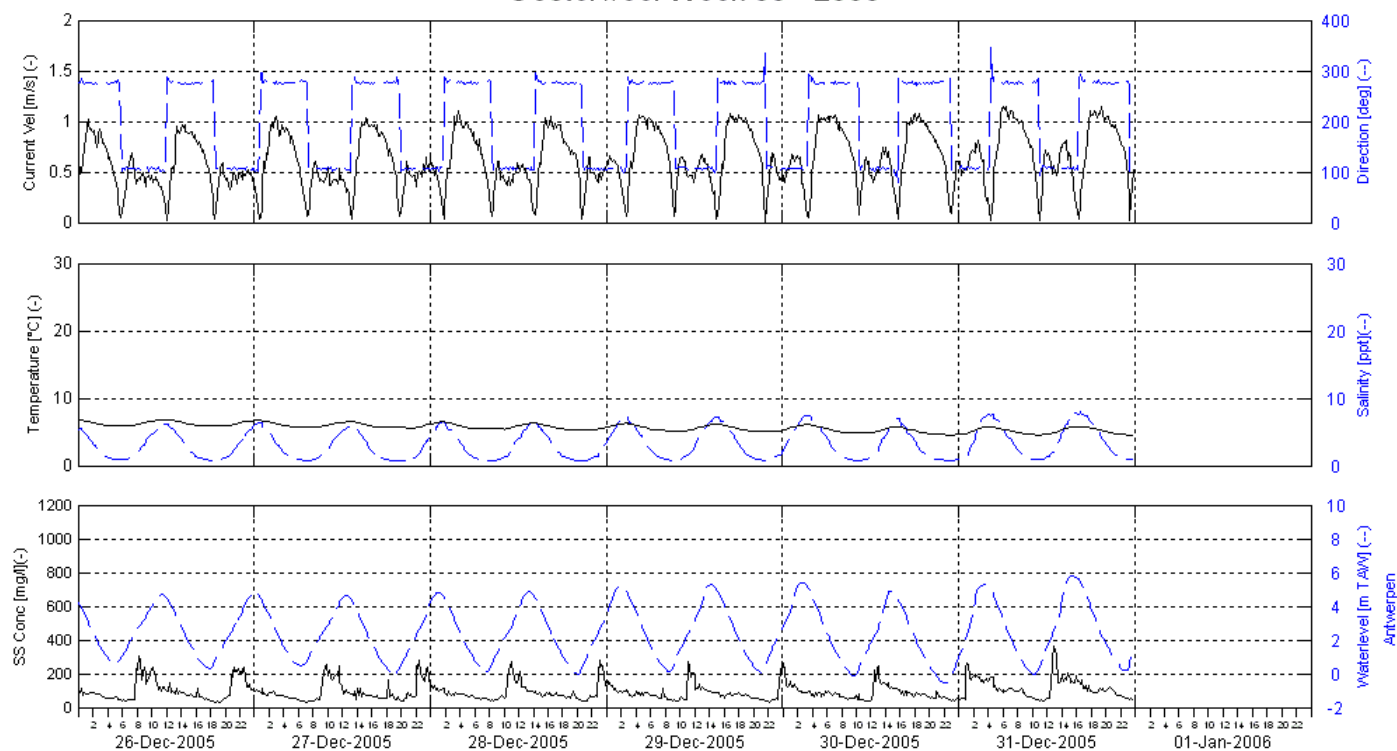


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 53 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel 2m above bottom (-9m TAW)

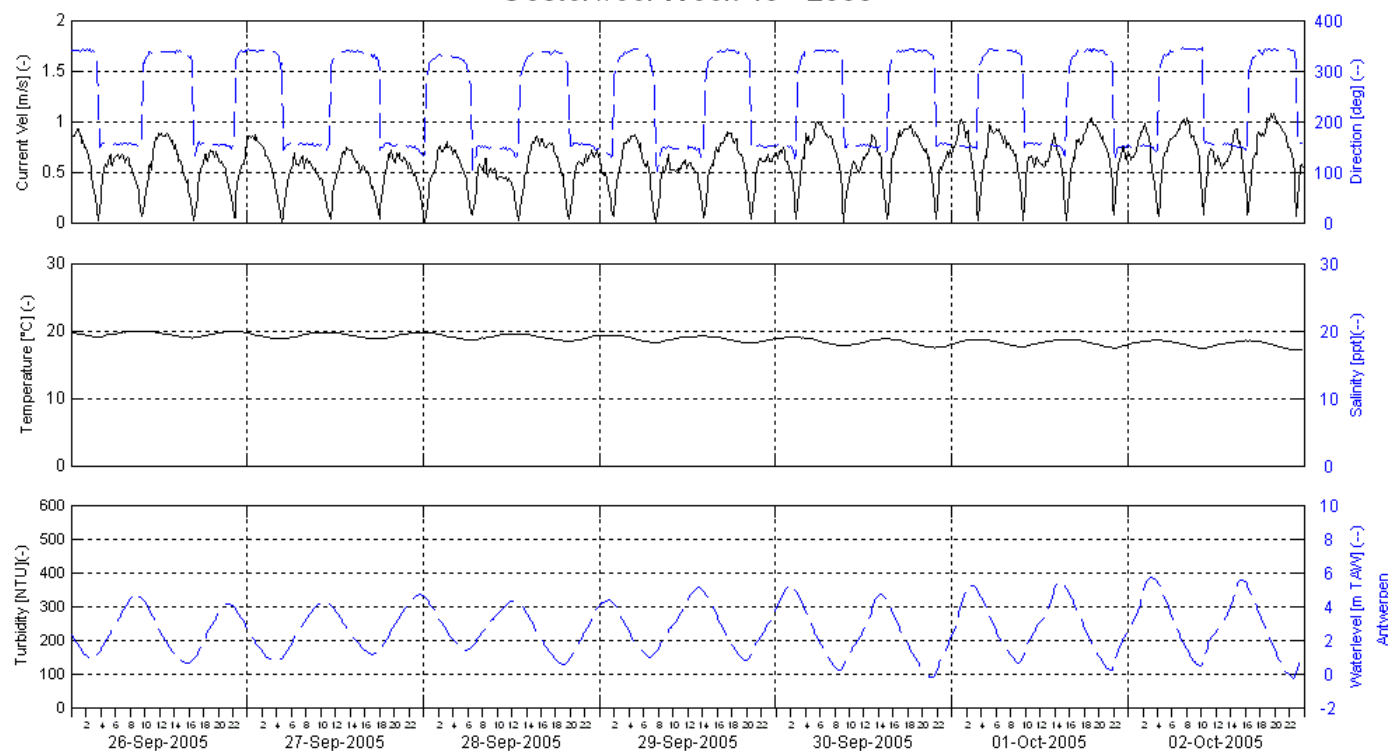
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

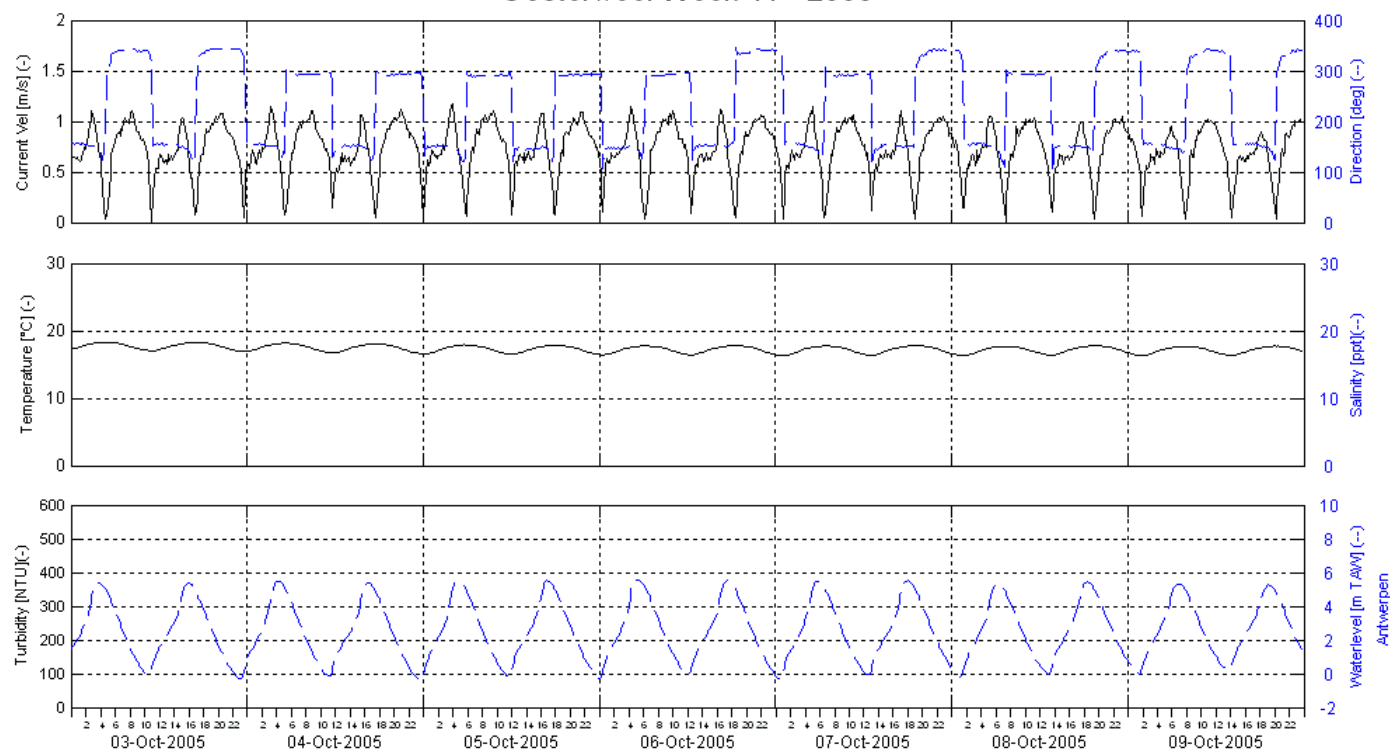
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 41 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

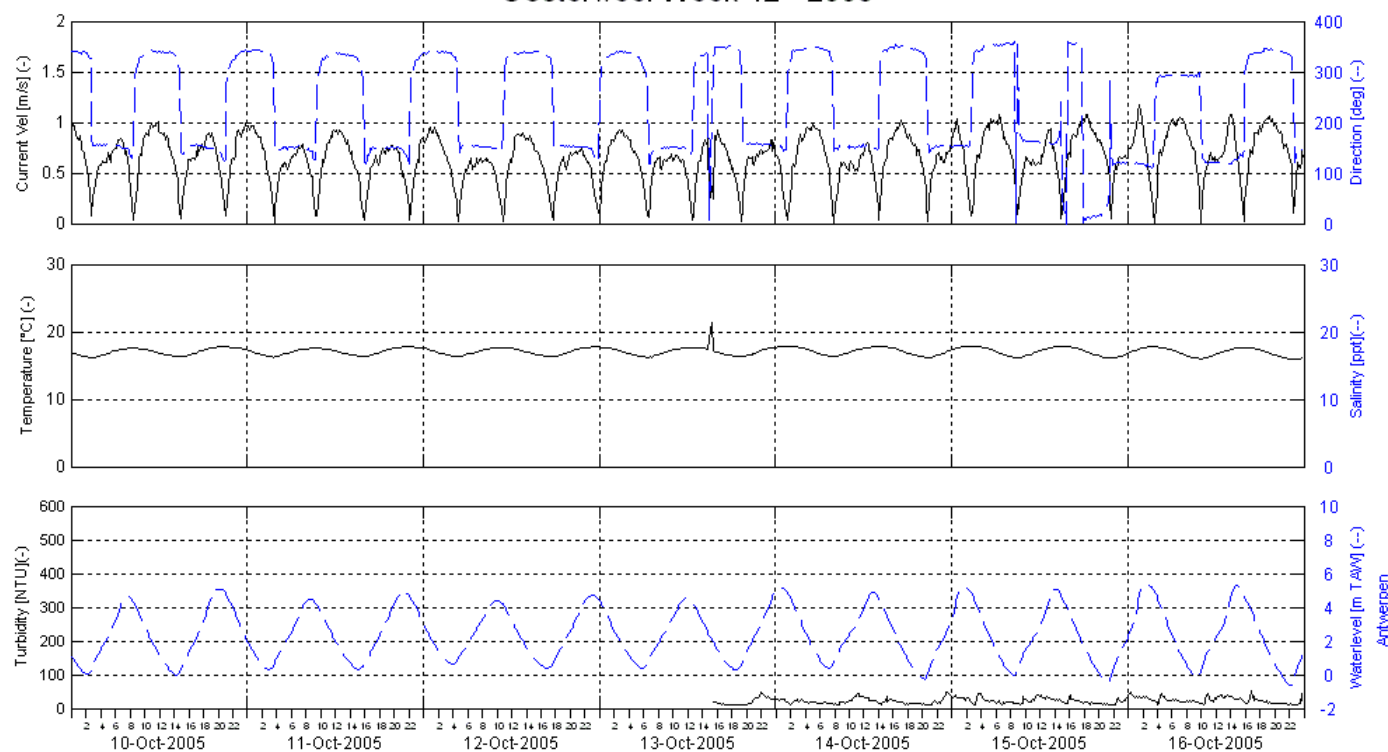
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 42 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

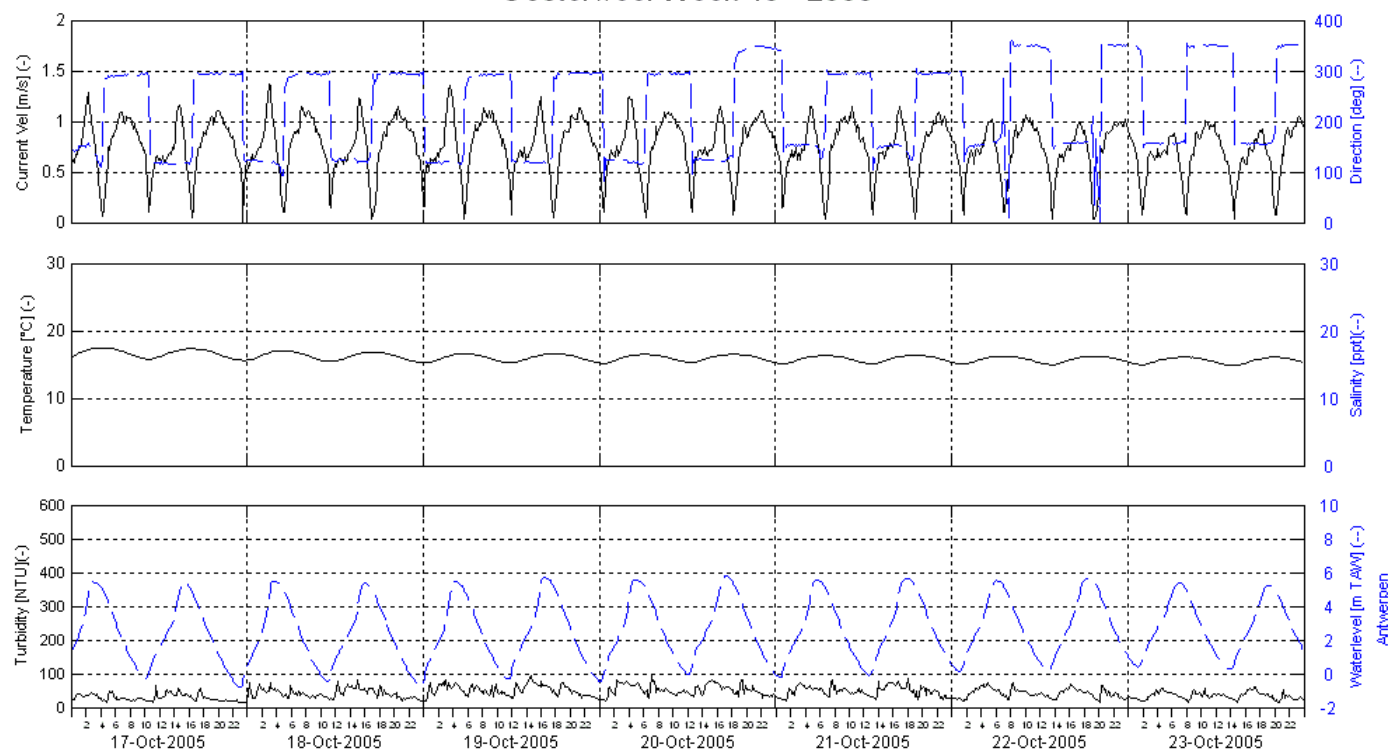
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 43 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

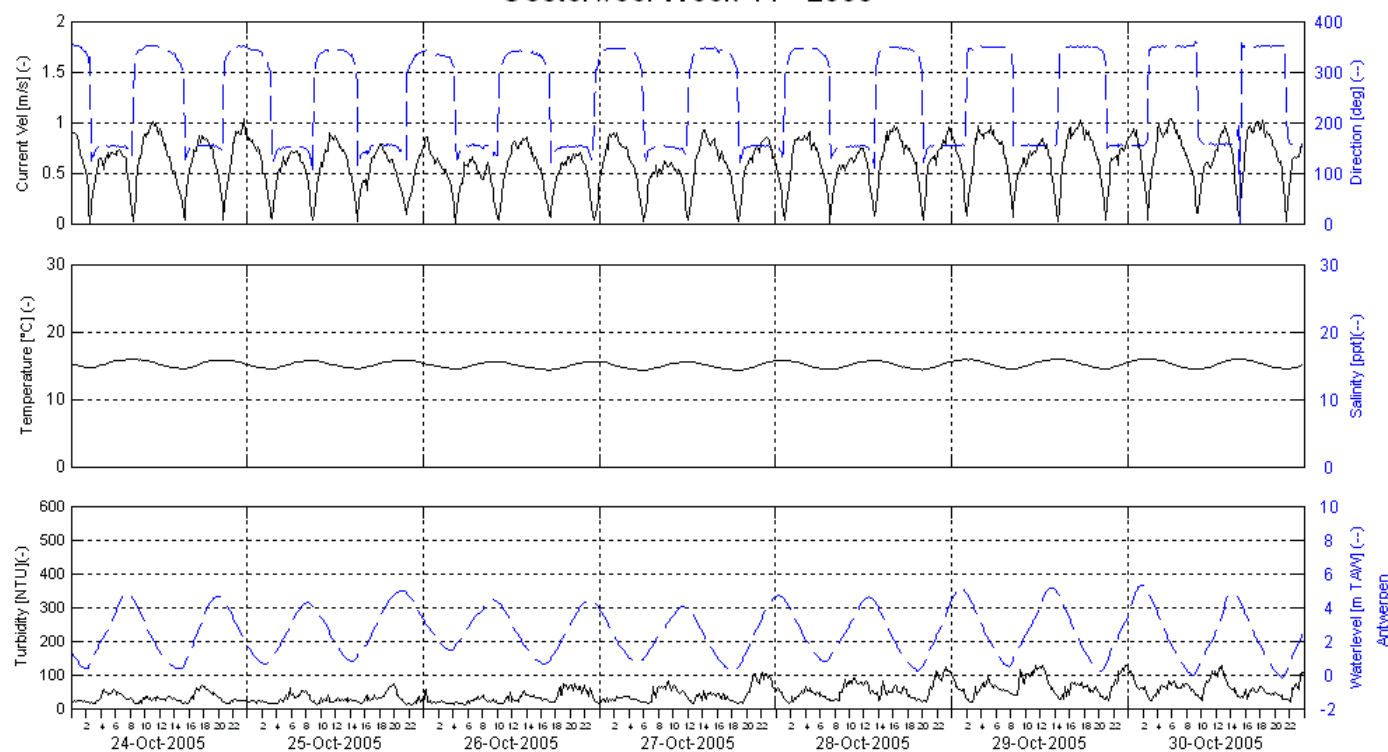
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 44 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

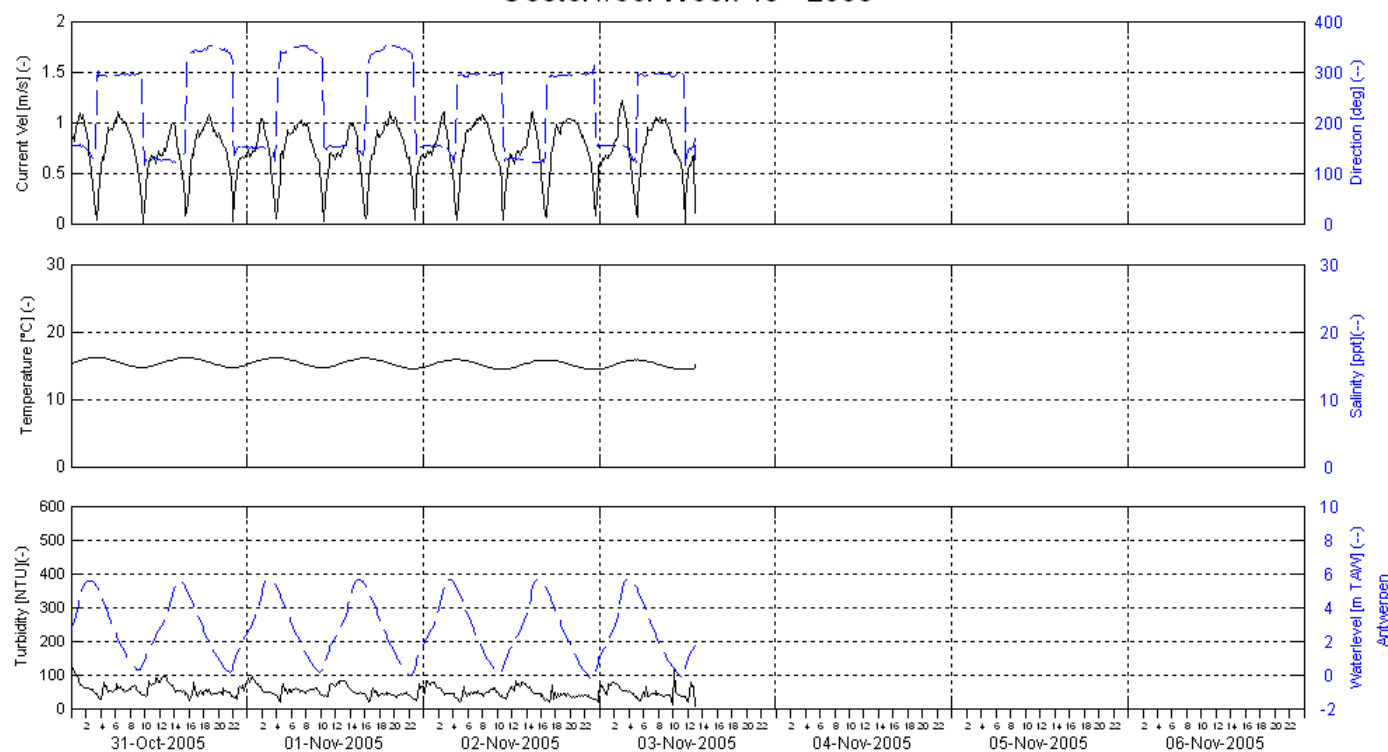
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 45 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

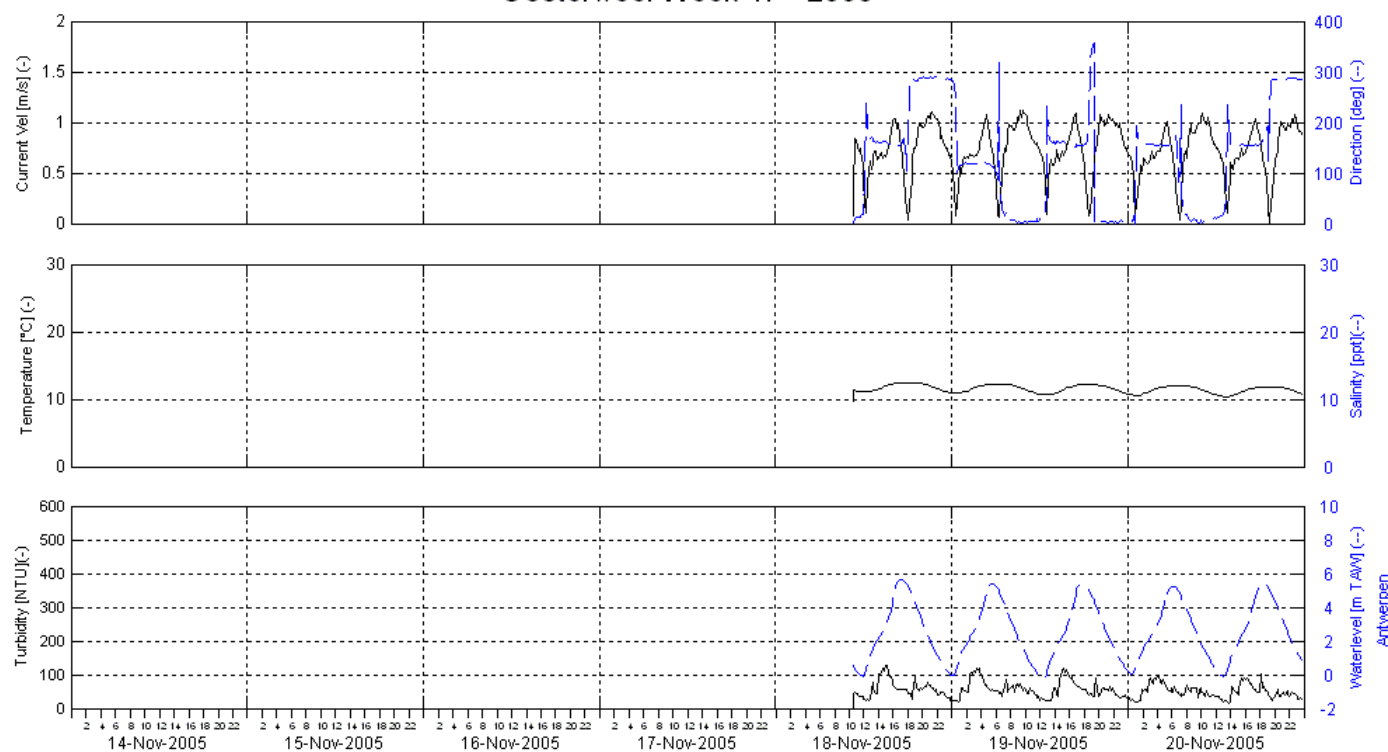
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 47 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

In association with:

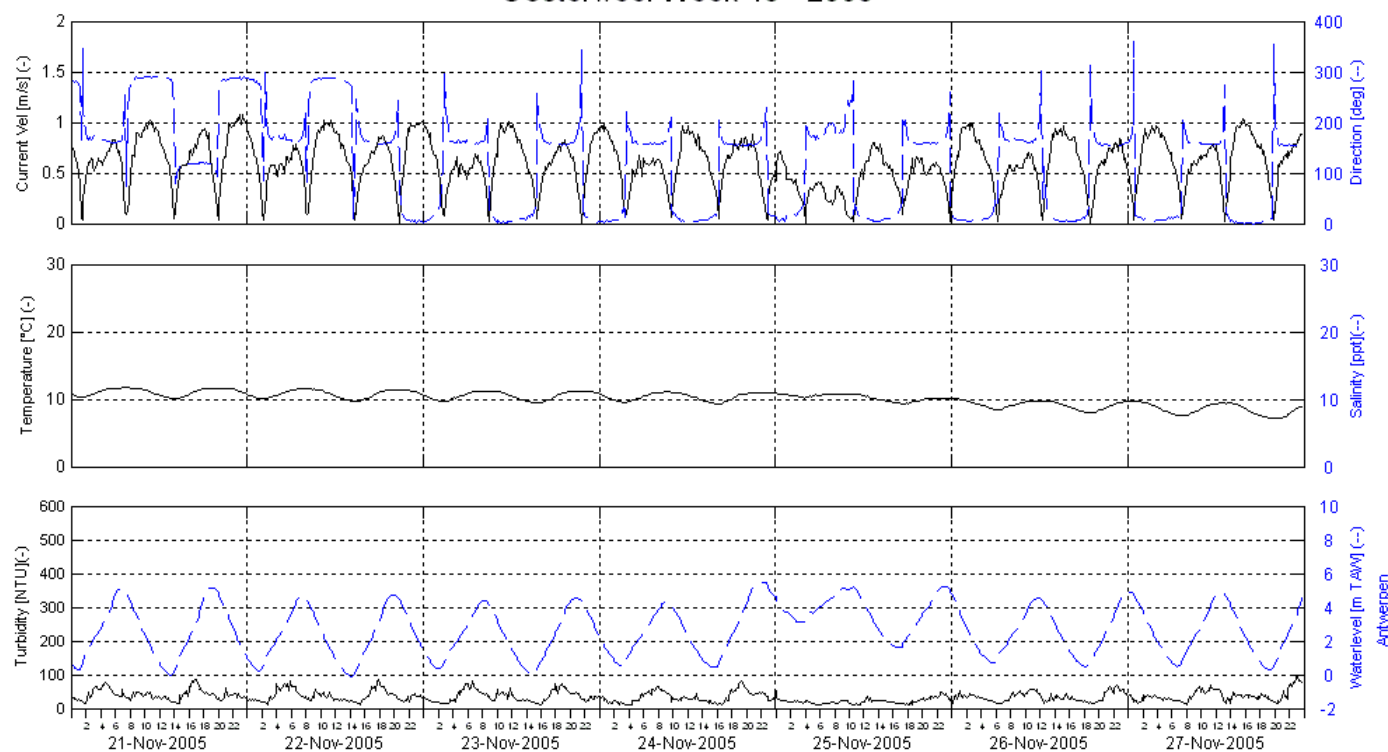


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 48 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

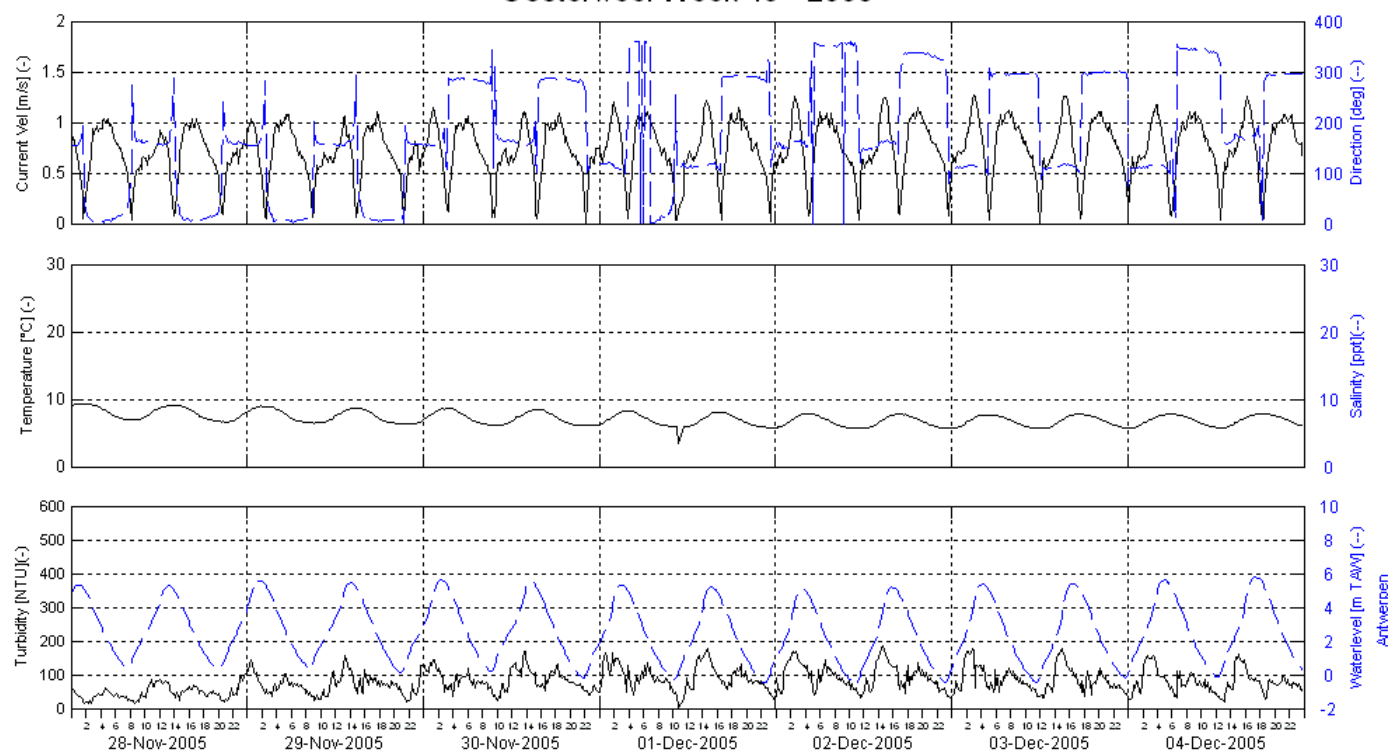
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 49 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

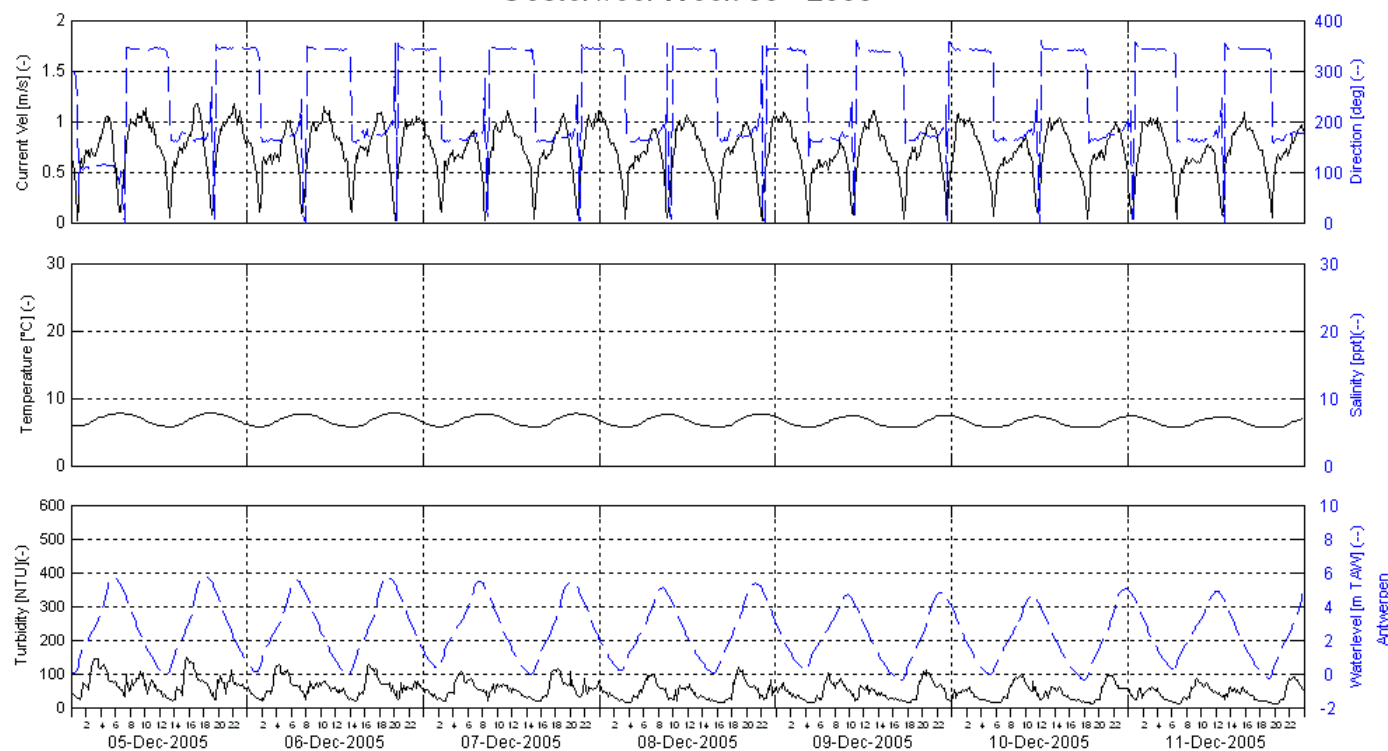
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 50 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

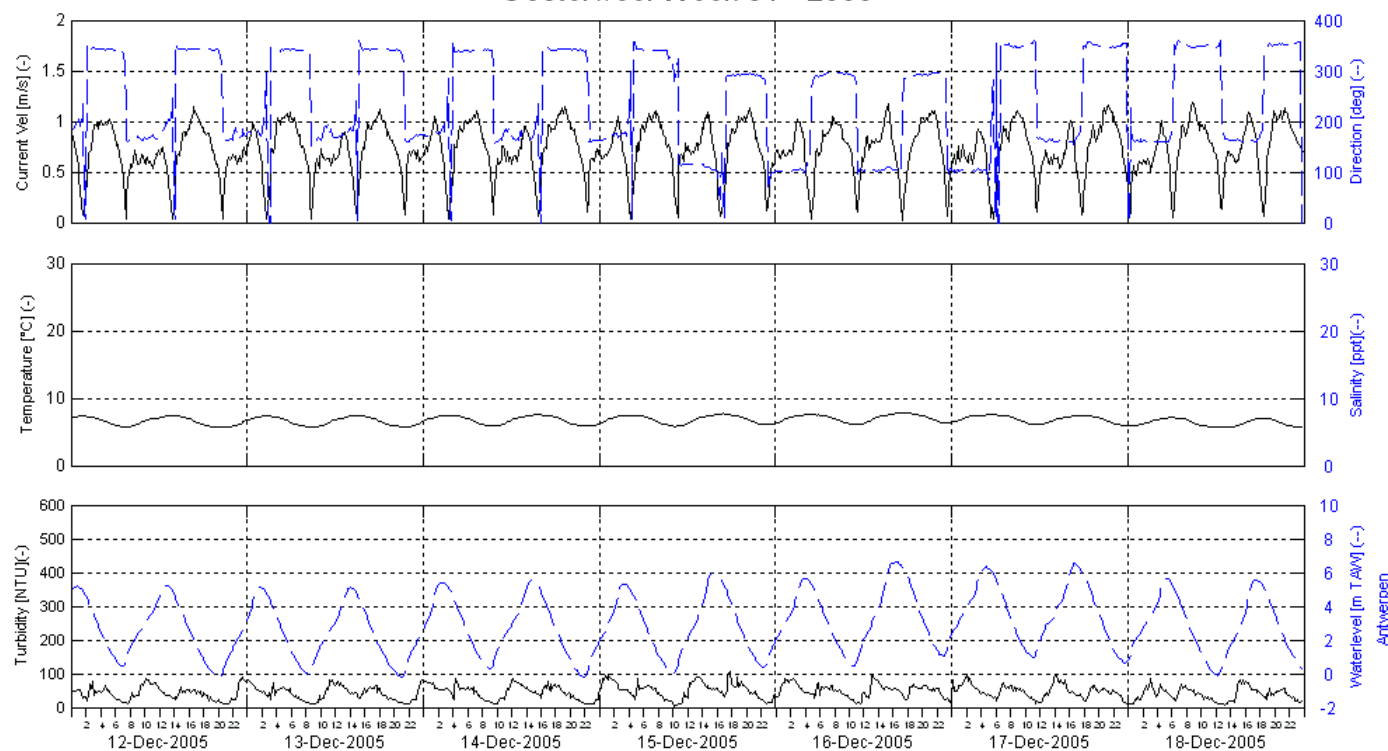
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 51 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

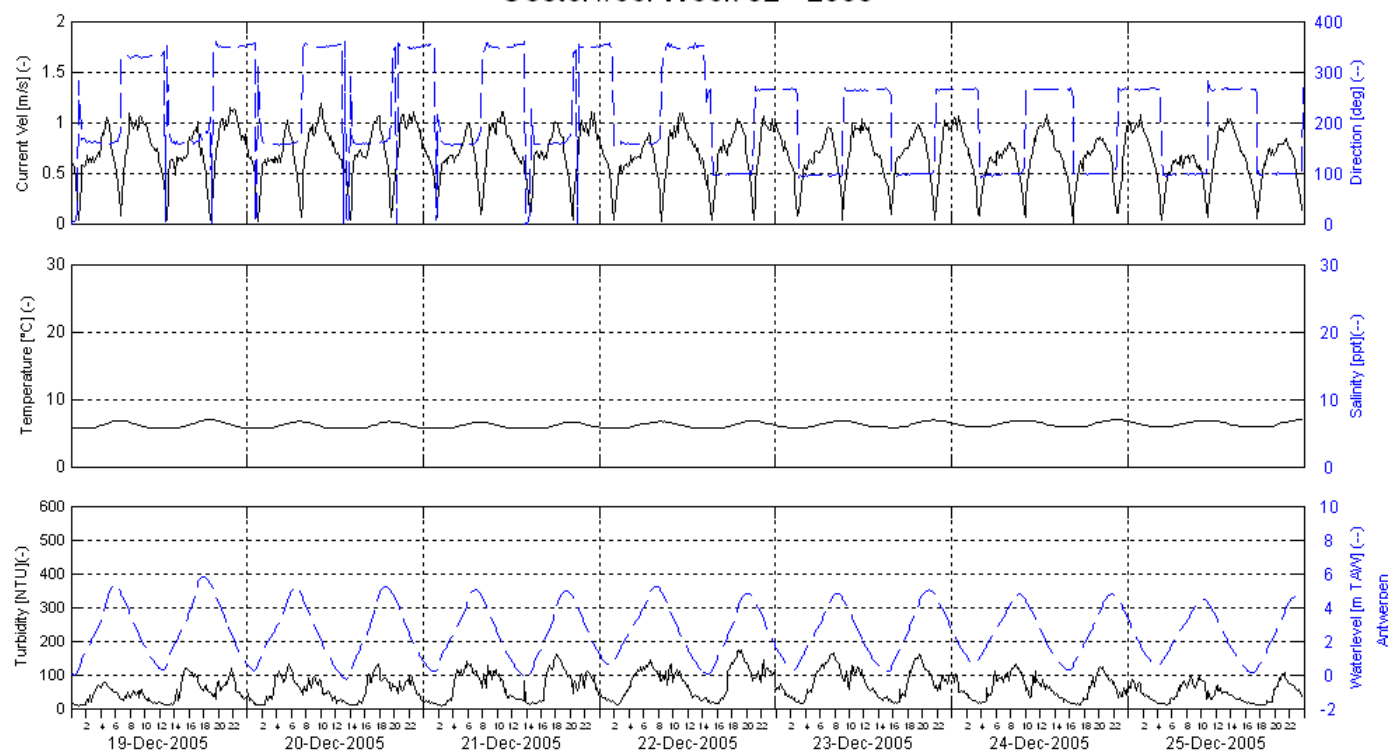
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 52 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

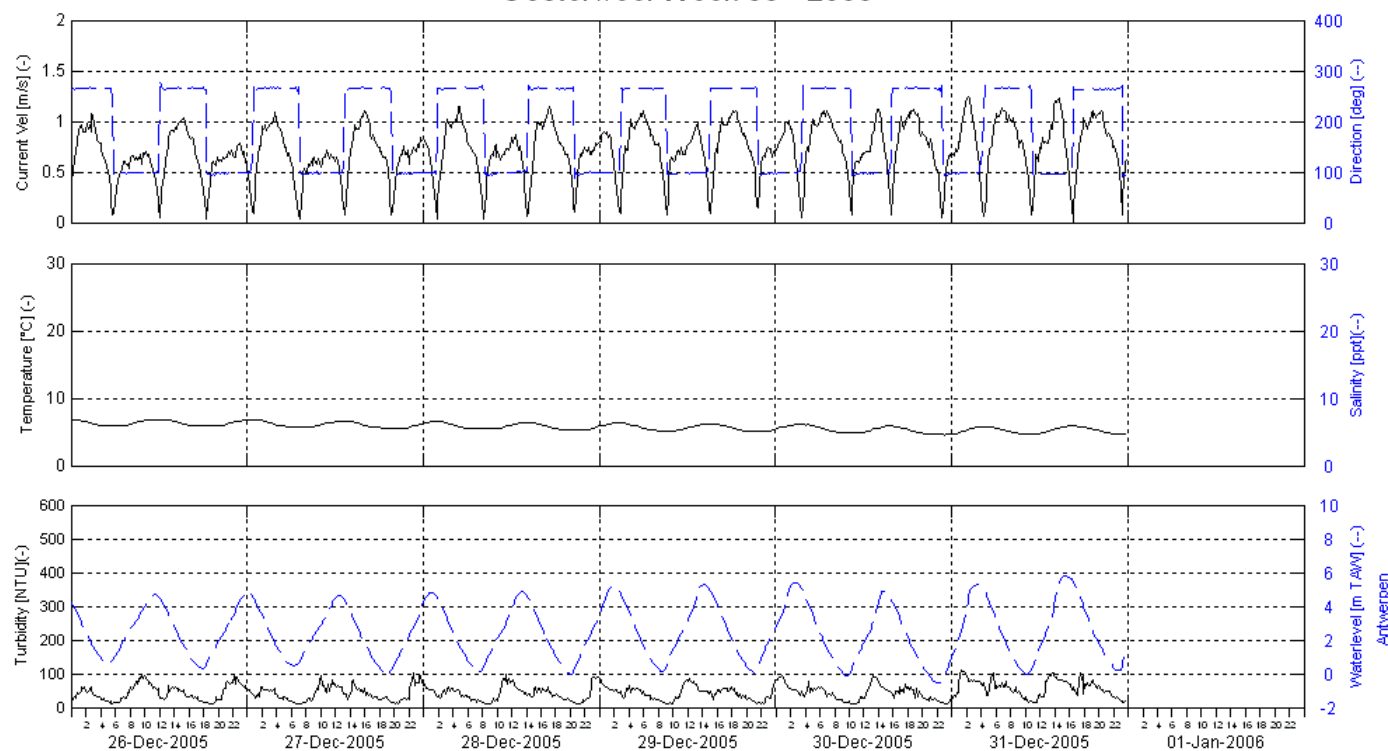
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 53 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 4.5m above bottom (-2.3m TAW)

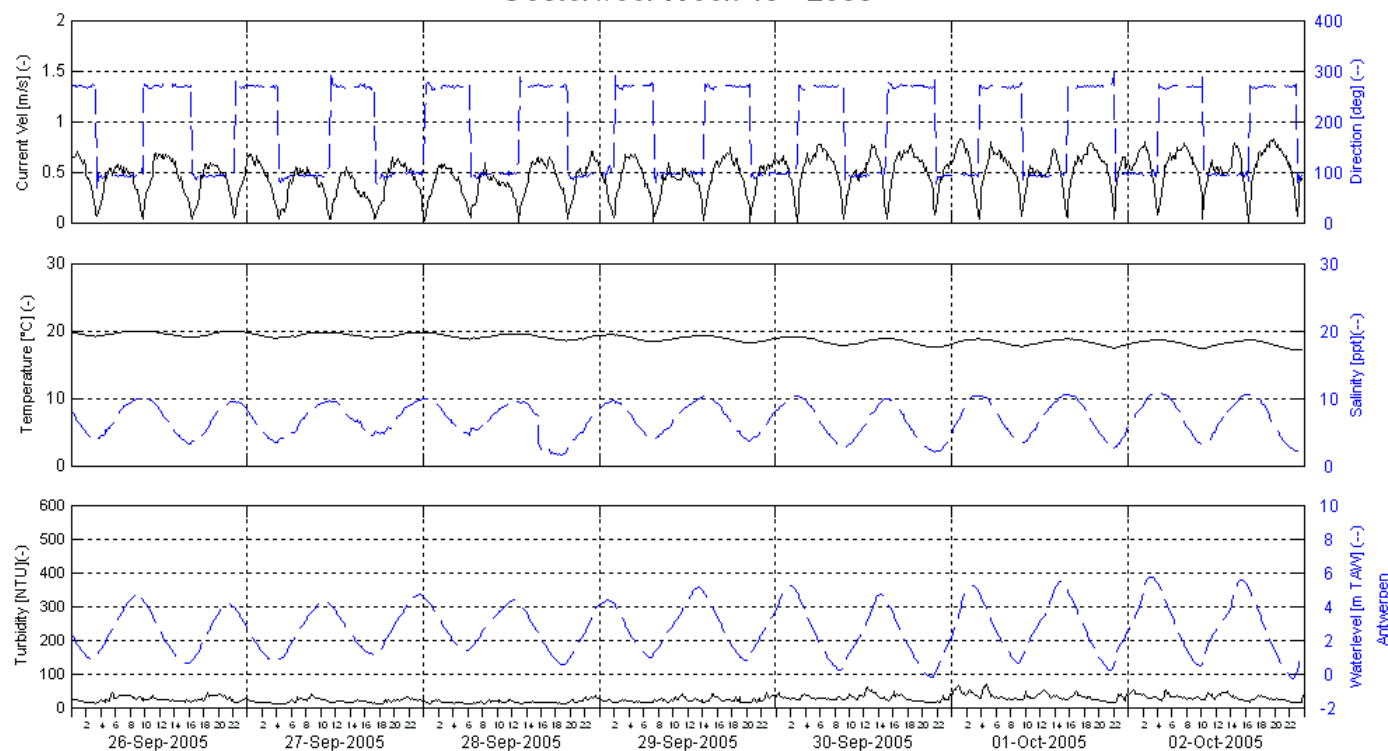
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 40 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

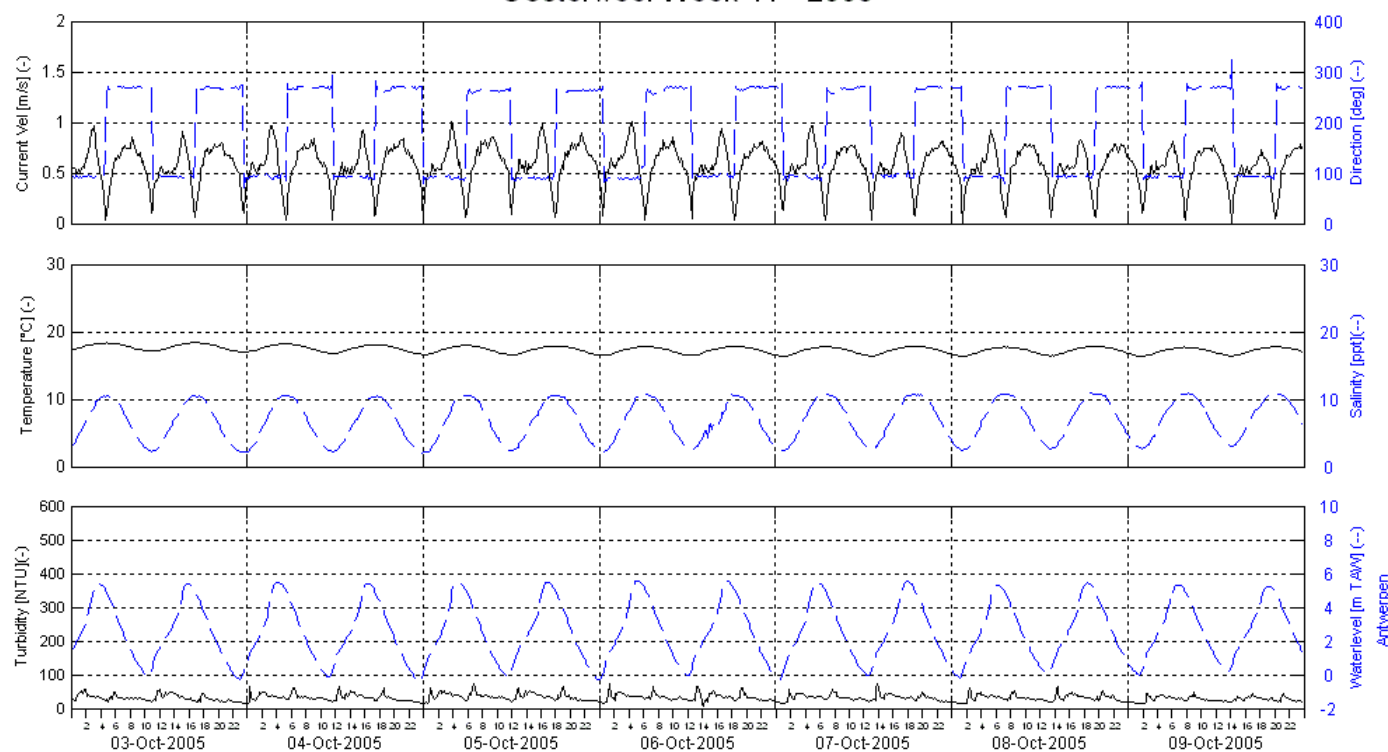
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 41 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

In association with:

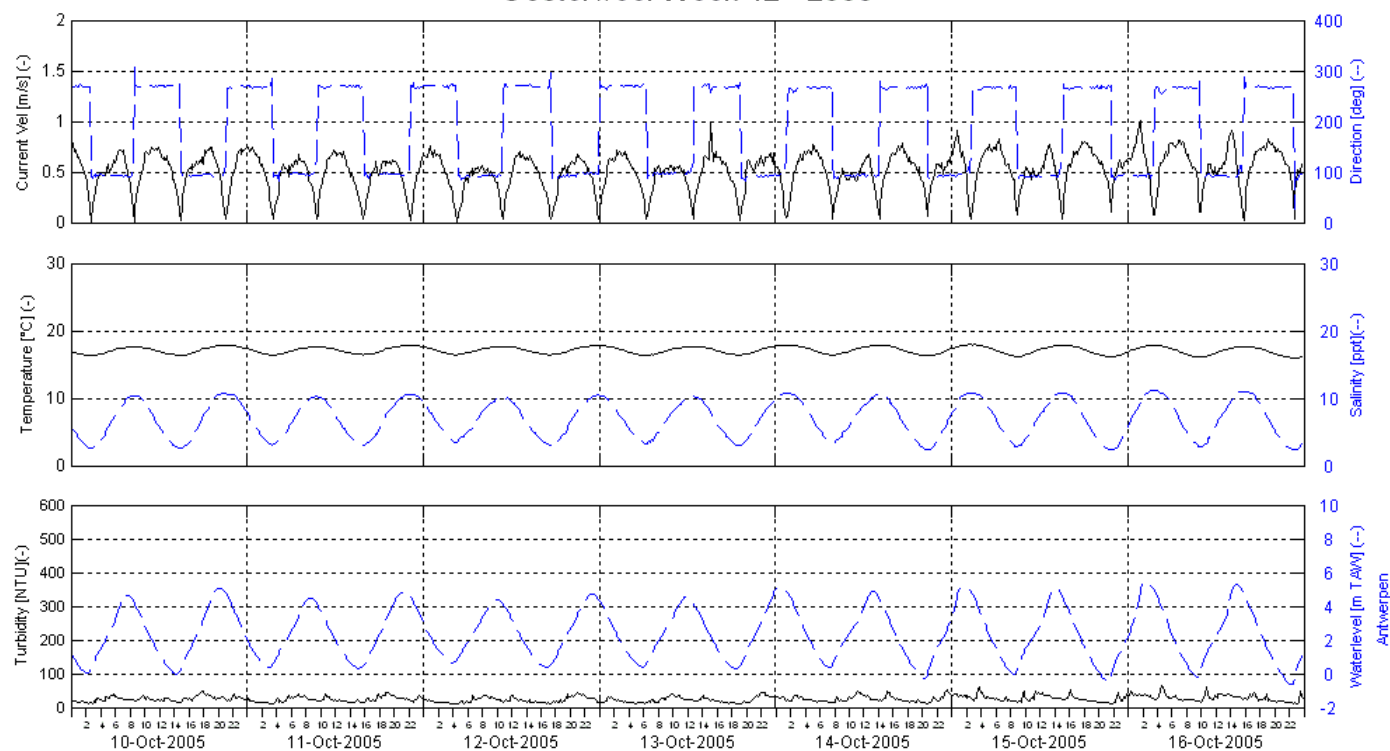


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 42 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

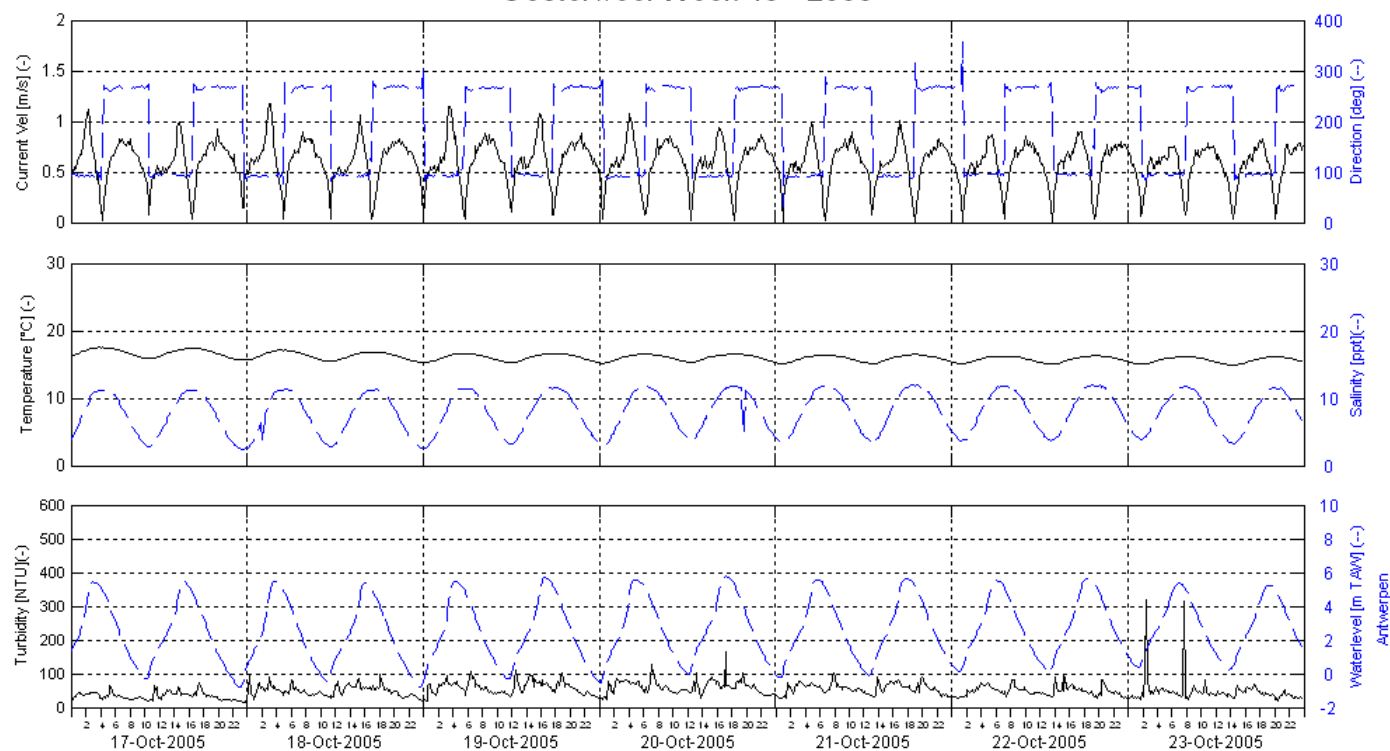
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 43 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

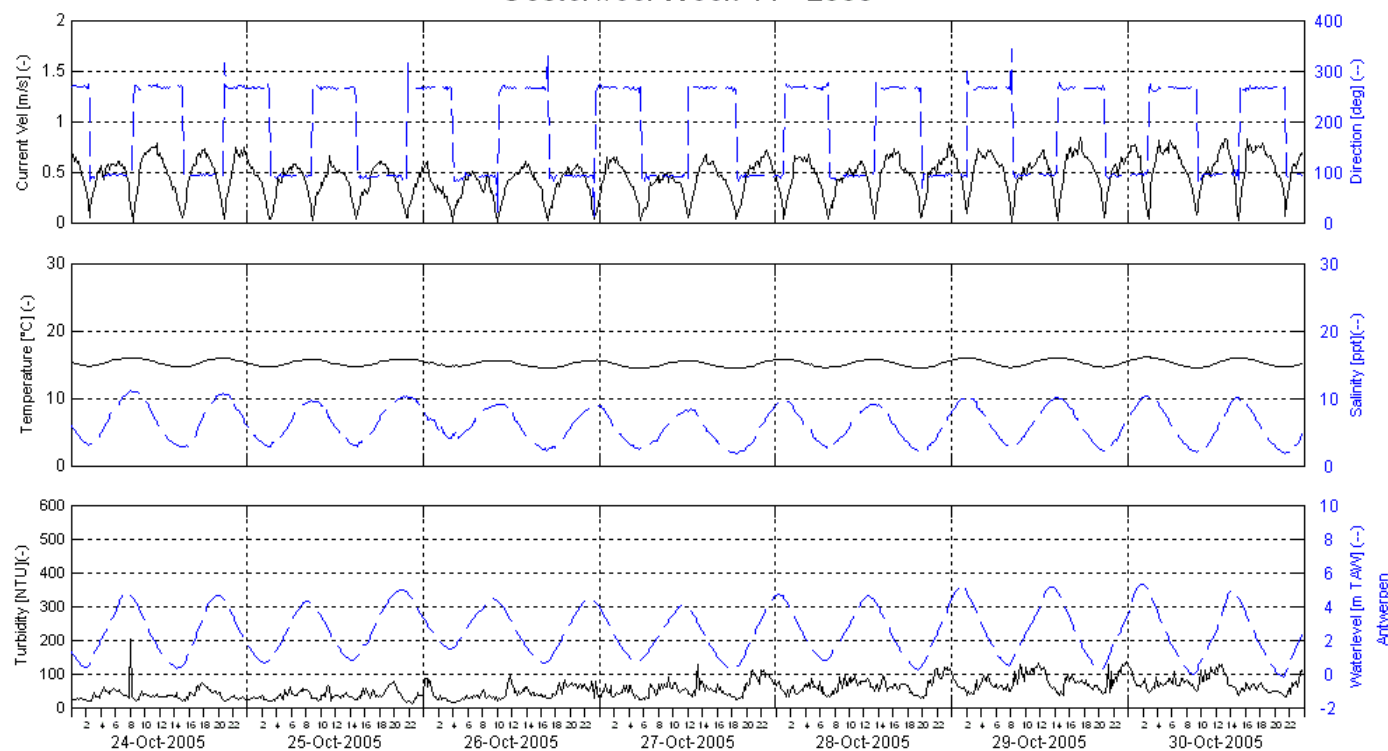
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 44 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

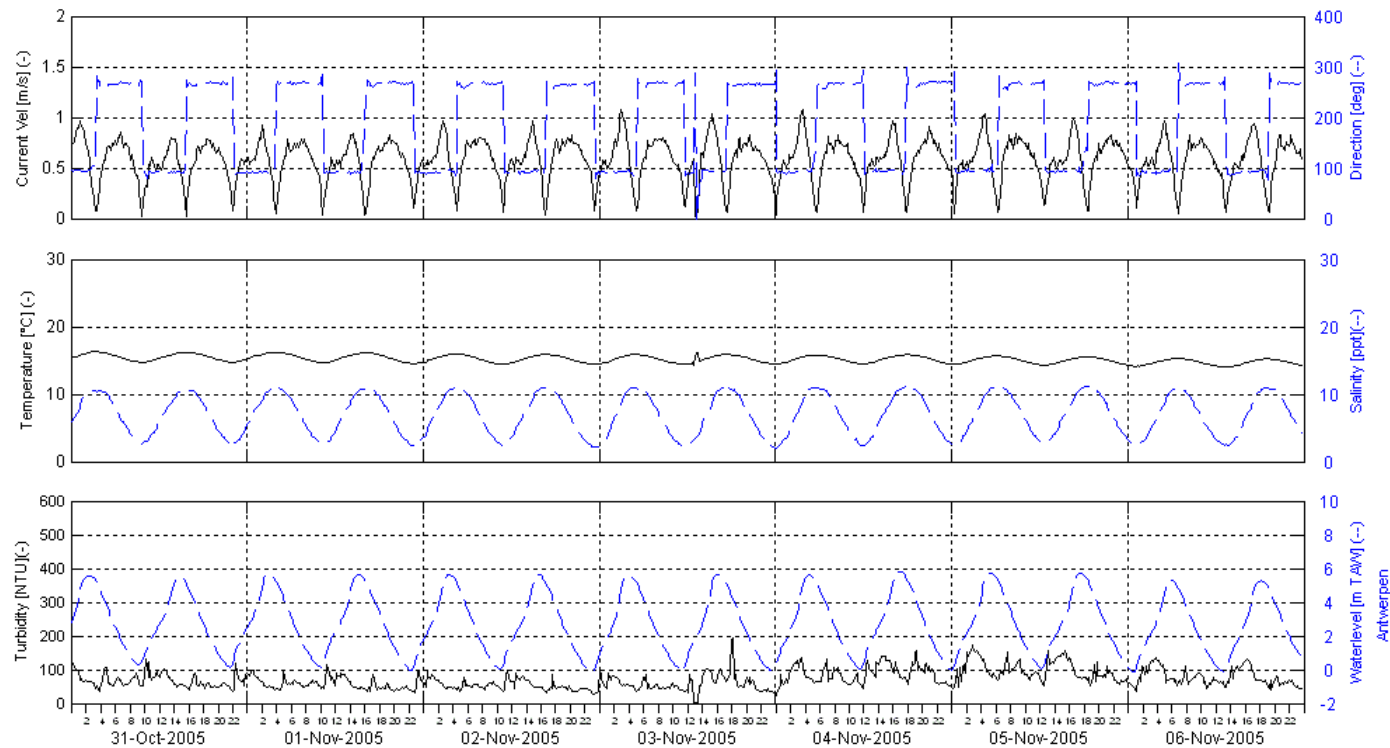
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 45 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

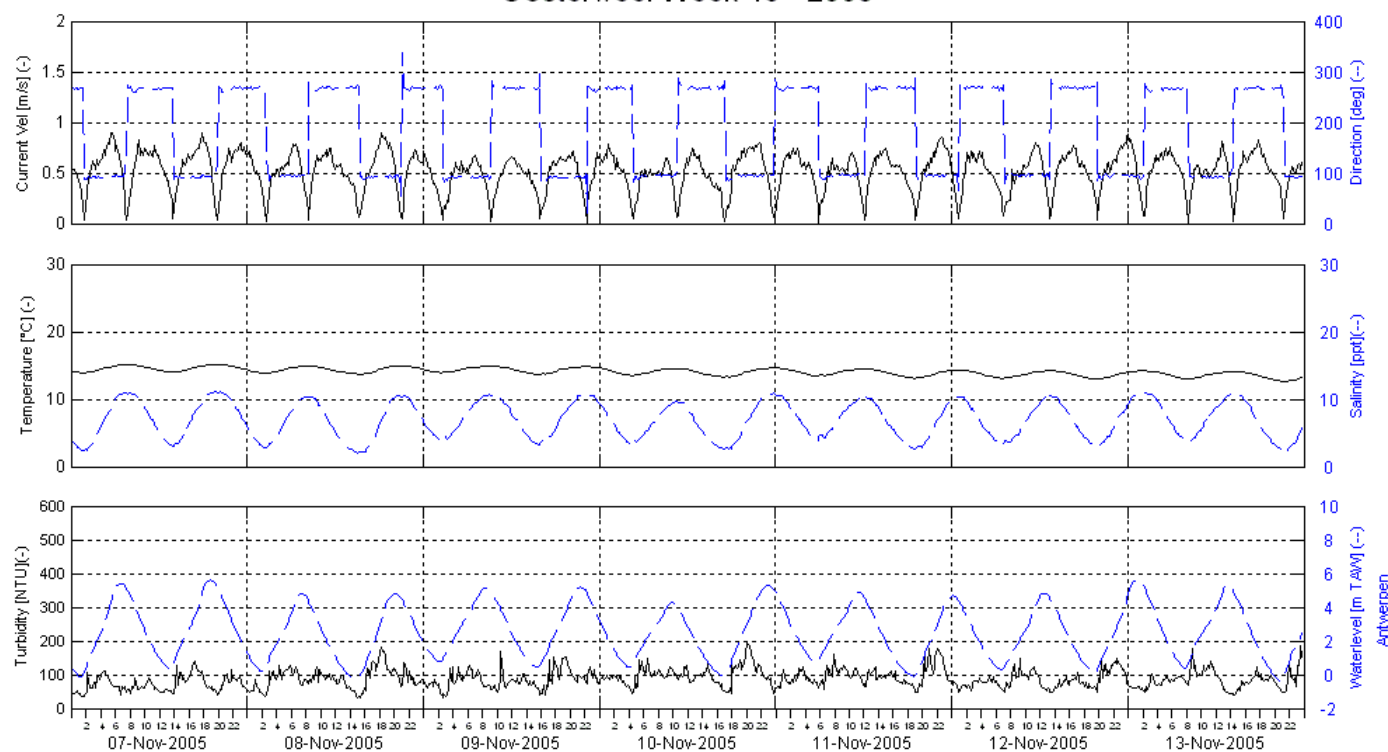
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 46 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

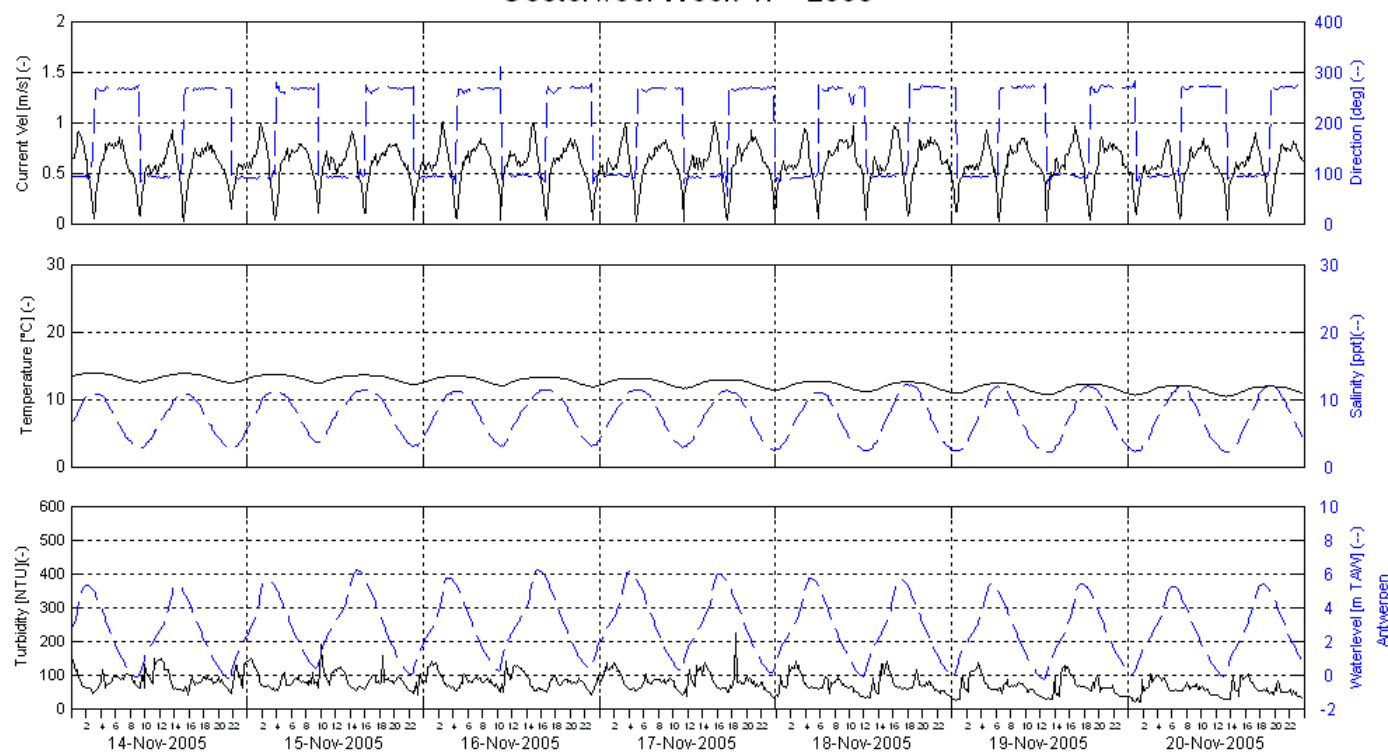
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 47 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

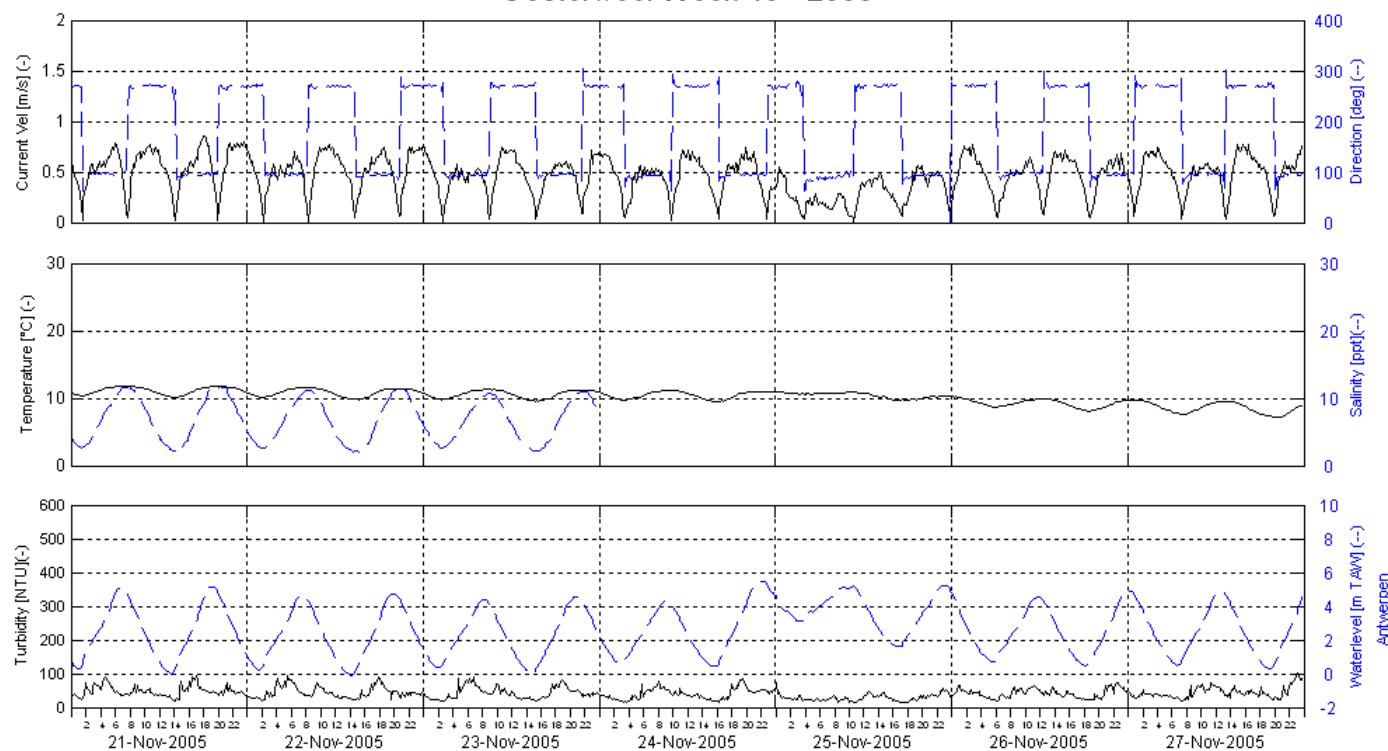
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 48 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

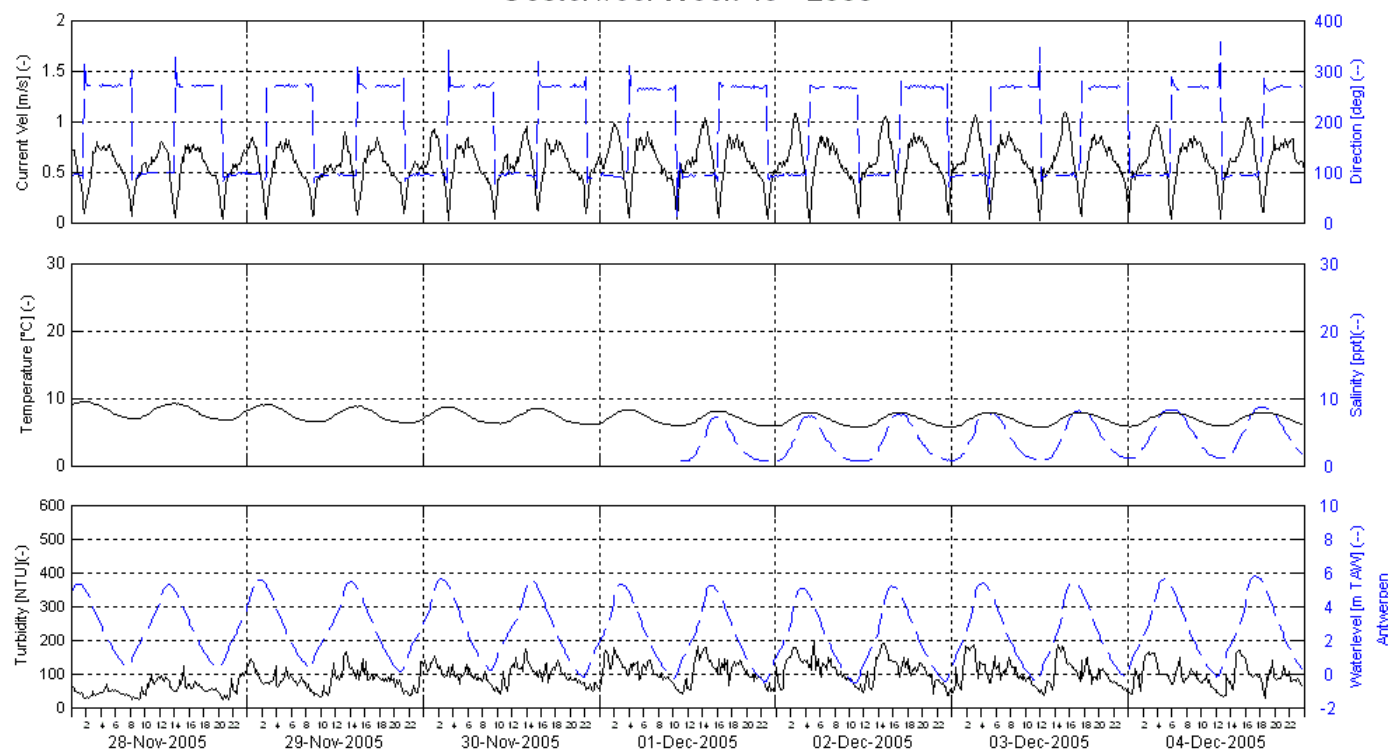
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 49 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

In association with:

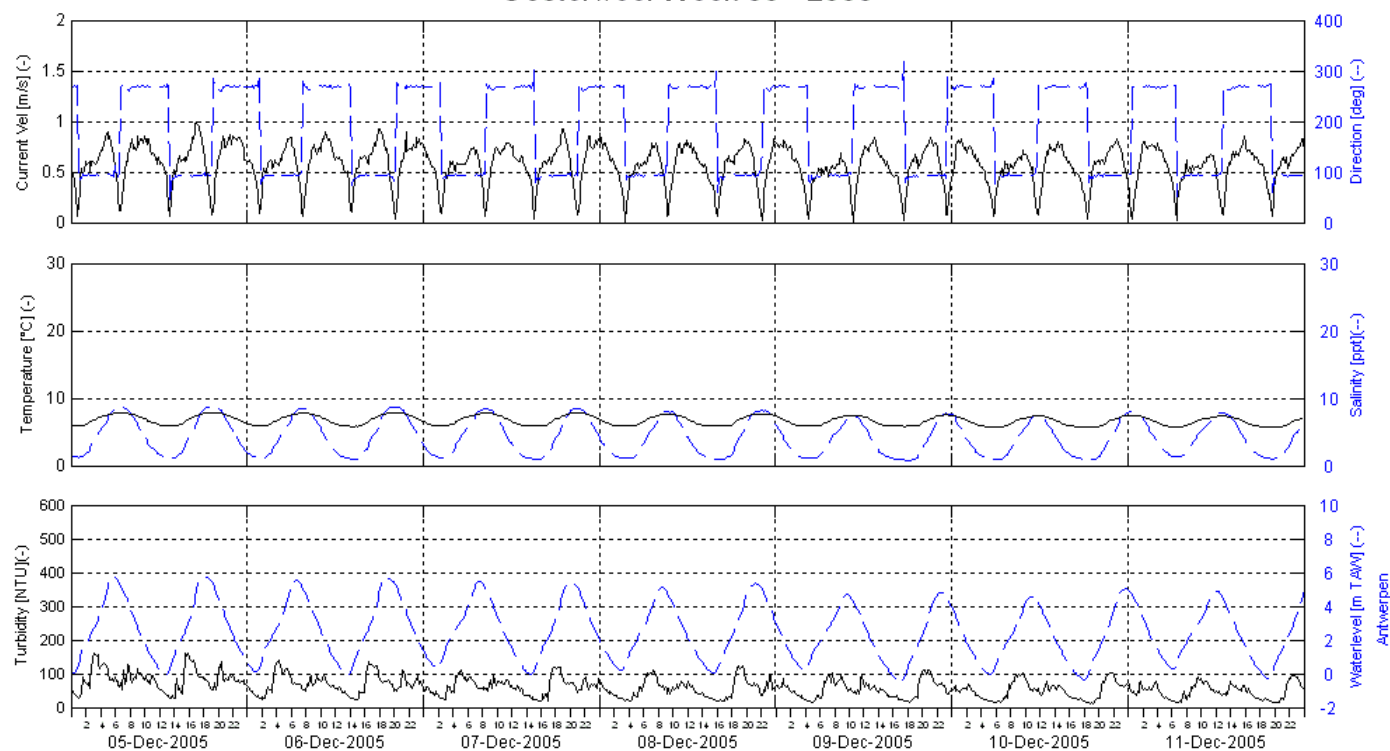


I/RA/11265/05.019/MSA



# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 50 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

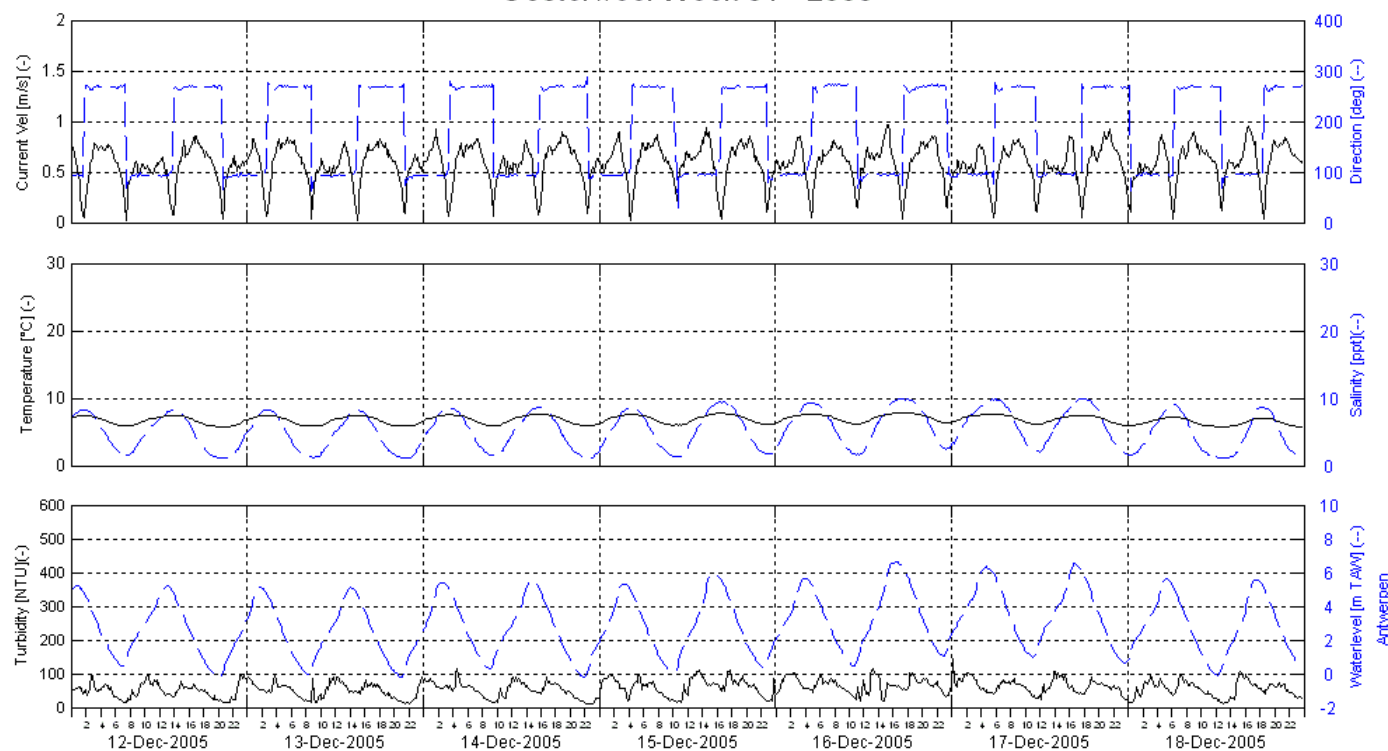
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 51 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

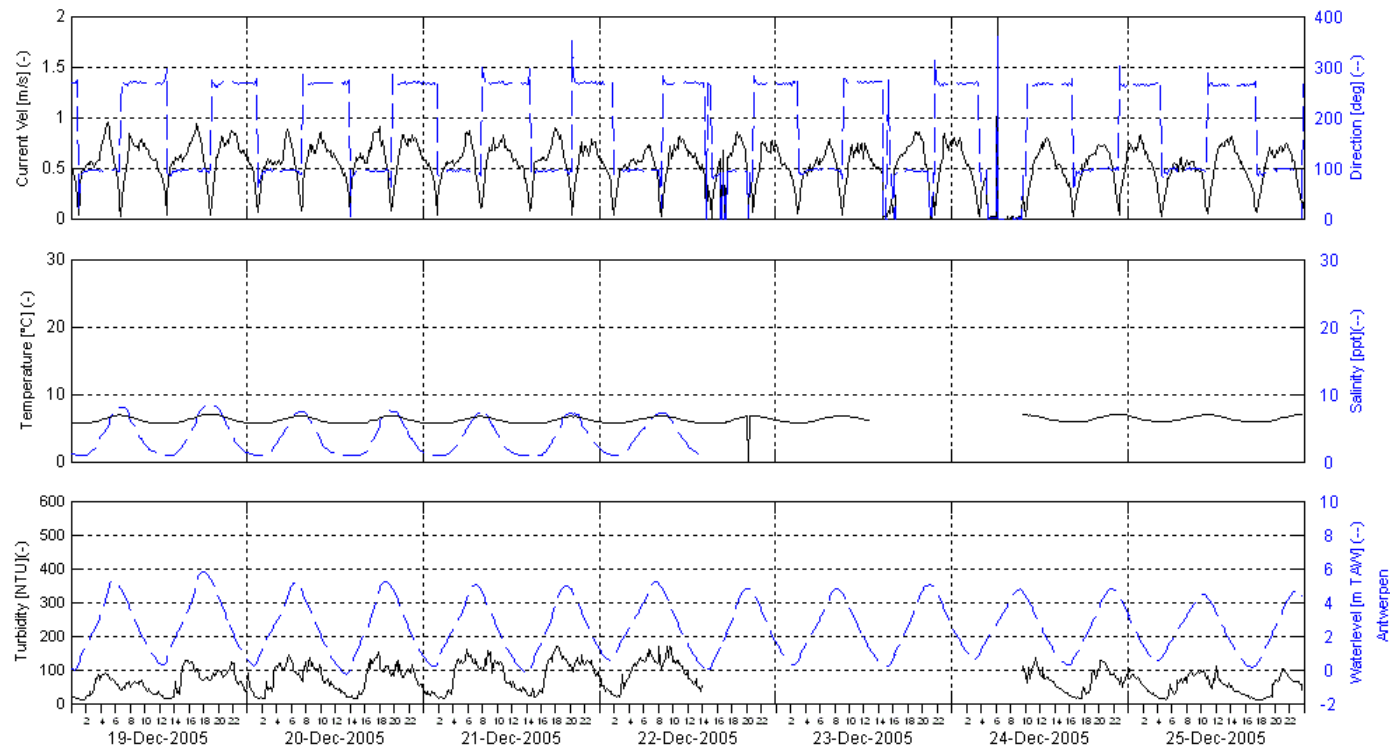
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 52 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

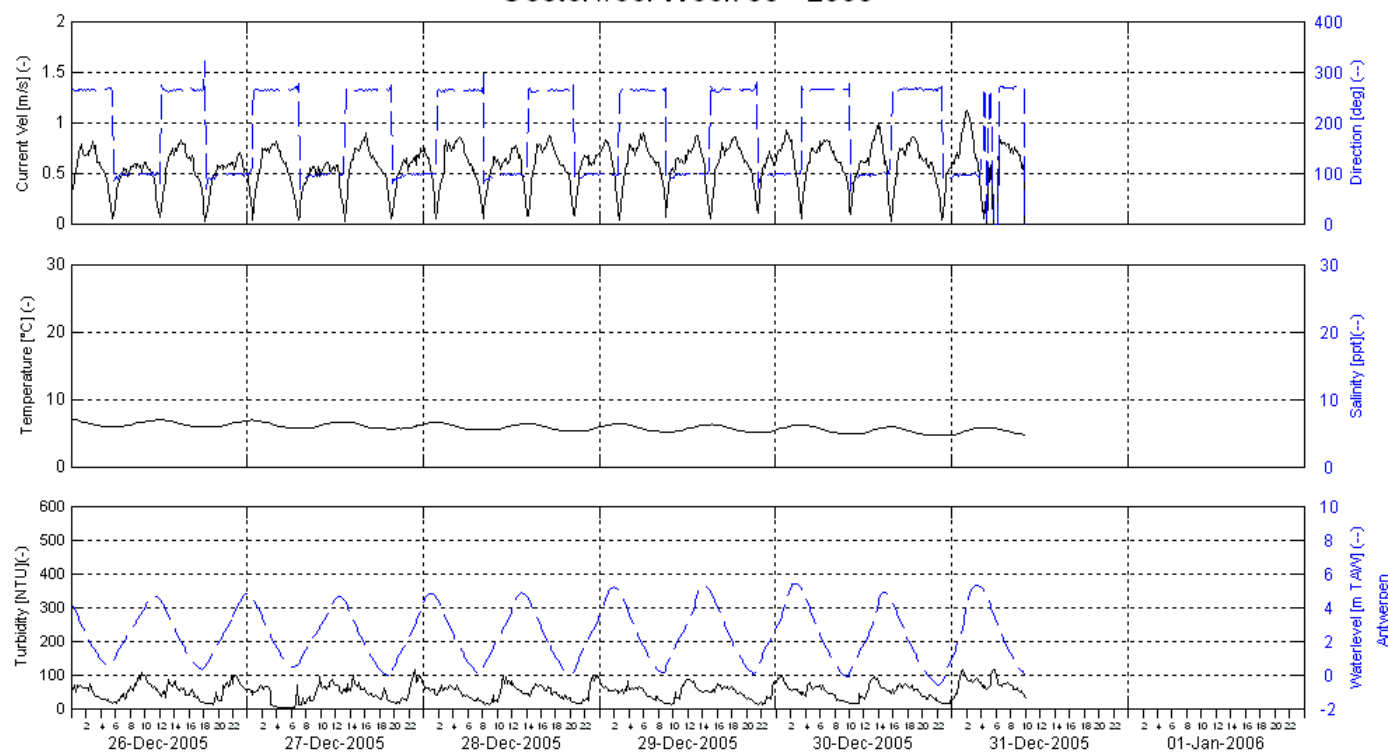
In association with:



I/RA/11265/05.019/MSA

# 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005

Oosterweel Week 53 - 2005



Week series Current Velocity, Current Direction,  
Temperature, Salinity, SS Concentration and Tide  
(October - December)

Data processed by:



Location:

Oosterweel Left Bank 1m above bottom (-5.8m TAW)

In association with:



I/RA/11265/05.019/MSA

### **C.3 Results monthly Minimum, Maximum and Average Velocity Magnitude, Temperature, Salinity & Suspended Sediment Concentration (Turbidity for “WLH” Locations) (long term measurements)**

Location: Boerenschans  
4 meter above bottom [-5 m TAW]

Velocity magnitude [m/s]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	0.01	1.45	0.59
<i>February 2005</i>	0.01*	1.33*	0.58*
<i>March 2005</i>	-	-	-
<i>April 2005</i>	-	-	-
<i>May 2005</i>	0	0.97	0.54
<i>June 2005</i>	0	0.97	0.56
<i>July 2005</i>	0.01	0.96	0.55
<i>August 2005</i>	0.01	0.96	0.53
<i>September 2005</i>	0.01	0.98	0.54
<i>October 2005</i>	0	0.97	0.53
<i>November 2005</i>	0.01*	0.93*	0.51*
<i>December 2005</i>	0	1.03	0.49
Temperature [°C]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	5.0	8.0	6.6
<i>February 2005</i>	5.1	7.4	6.3
<i>March 2005</i>	-	-	-
<i>April 2005</i>	-	-	-
<i>May 2005</i>	13.9	17.9	15.3
<i>June 2005</i>	17.2	- <sup>1</sup>	18.4 <sup>1</sup>
<i>July 2005</i>	13.26	- <sup>1</sup>	13.59 <sup>1</sup>
<i>August 2005</i>	12.01	13.64	12.77
<i>September 2005</i>	10.74	14.07	12.85
<i>October 2005</i>	8.36	11.63	10.00
<i>November 2005</i>	6.18*	11.27*	9.17*
<i>December 2005</i>	4.66	8.64	6.73

Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
January 2005	-	-	-	-	-	-
February 2005	-	-	-	-	-	-
March 2005	-	-	-	-	-	-
April 2005	-	-	-	-	-	-
May 2005	-	-	-	-	-	-
June 2005	11.1	4.0	11.8	5.7	11.4	4.7
July 2005	7.3	0.8	12.5	4.6	9	2.4
August 2005	10.3	1.4	13.6	5.7	12.3	3.3
September 2005	11.7	0.5	14.9	6.8	13.6	3.5
October 2005	11.8	0.6	15	5.7	13.5	3.5
November 2005	-	-	-	-	-	-
December 2005	-	-	-	-	-	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
January 2005	30		601		155	
February 2005	23		486		139	
March 2005	-		-		-	
April 2005	-		-		-	
May 2005	29		425		136	
June 2005	39		556		149	
July 2005	31*		505*		85*	
August 2005	31		345		107	
September 2005	30		245		75	
October 2005	-		-		-	
November 2005	-		-		-	
December 2005	28.66		514.95		116.13	

<sup>1</sup>: Werkelijke Temperatuur overtrof meetlimiet van sensor.

<sup>2</sup>: Werkelijke Saliniteit buiten meetbereik sensor.

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Boerenschans  
2 meter above bottom [-7 m TAW]

Velocity magnitude [m/s]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	0.01	1.27	0.5
<i>February 2005</i>	0.01*	1.28*	0.43*
<i>March 2005</i>	0*	1.16*	0.49*
<i>April 2005</i>	0	0.98	0.49
<i>May 2005</i>	0.01	0.91	0.49
<i>June 2005</i>	0.01	0.92	0.48
<i>July 2005</i>	-	-	-
<i>August 2005</i>	0.00	0.92	0.47
<i>September 2005</i>	0.00*	0.93*	0.49*
<i>October 2005</i>	-	-	-
<i>November 2005</i>	-	-	-
<i>December 2005</i>	0.01	0.96	0.46
Temperature [°C]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	5.0	8.1	6.6
<i>February 2005</i>	5.2*	7.4*	6.3*
<i>March 2005</i>	4.2*	11.4*	7.7*
<i>April 2005</i>	10.8	14.2	12.3
<i>May 2005</i>	13.9	18.0	15.3
<i>June 2005</i>	17.3	_ <sup>1</sup>	18.4 <sup>1</sup>
<i>July 2005</i>	-	-	-
<i>August 2005</i>	12.04	13.61	12.77
<i>September 2005</i>	12.6*	14.07*	13.38*
<i>October 2005</i>	-	-	-
<i>November 2005</i>	-	-	-
<i>December 2005</i>	4.71	8.7	6.8



Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
January 2005	5.1	0.8	7.6	3.5	6.4	1.3
February 2005	1.9	0.4	7.3	2.3	5.4	1
March 2005	-	-	-	-	-	-
April 2005	-	-	-	-	-	-
May 2005	4.4	0.5	8.2	2.7	6.2	1.4
June 2005	7.8	0.4	10.7	4.2	9.3	2
July 2005	-	-	-	-	-	-
August 2005	9.8	1.7	13.2	5.7	12	3.5
September 2005	10.9*	2.5*	14.1*	5.6*	12.1*	3.9*
October 2005	-	-	-	-	-	-
November 2005	-	-	-	-	-	-
December 2005	-	-	-	-	-	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
January 2005	31		854		194	
February 2005	13*		1054*		251*	
March 2005	40*		749*		237*	
April 2005	33		714		232	
May 2005	44		584		179	
June 2005	44		678		183	
July 2005	-		-		-	
August 2005	36		469		135	
September 2005	34*		326*		107*	
October 2005	-		-		-	
November 2005	-		-		-	
December 2005	30		673		169	

<sup>1</sup>: Werkelijke Temperatuur overtrof meetlimiet van sensor.

<sup>2</sup>: Werkelijke Saliniteit buiten meetbereik sensor.

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Hoboken  
2 meter above bottom [-5 m TAW]

Velocity magnitude [m/s]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	0.01	1.46	0.65
<i>February 2005</i>	0.01	1.57	0.59
<i>March 2005</i>	0.01	1.55	0.71
<i>April 2005</i>	0	1.52	0.71
<i>May 2005</i>	0.01	1.36	0.67
<i>June 2005</i>	0.01	1.33	0.7
<i>July 2005</i>	0.01	1.44	0.75
<i>August 2005</i>	0.01	1.47	0.74
<i>September 2005</i>	0	1.55	0.74
<i>October 2005</i>	0	1.57	0.75
<i>November 2005</i>	0	1.41	0.74
<i>December 2005</i>	1	1.42	0.72
Temperature [°C]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	4.3	7.6	6.1
<i>February 2005</i>	3.6	7.5	5.4
<i>March 2005</i>	2.8	12.2	6.6
<i>April 2005</i>	11.1	14.5	12.4
<i>May 2005</i>	13.8	19.0	15.4
<i>June 2005</i>	17.4	23.3	19.5
<i>July 2005</i>	19.2	23.0	21.46
<i>August 2005</i>	19.1	21.3	20.20
<i>September 2005</i>	16.9	21.9	20.04
<i>October 2005</i>	14.0	18.3	15.8
<i>November 2005</i>	5.8	15.6	11.5
<i>December 2005</i>	4.0	7.4	5.9

Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
January 2005	0.3 <sup>2</sup>	0.3 <sup>2</sup>	4.6	0.5	1.5	0.4 <sup>2</sup>
February 2005	0.3 <sup>2</sup>	0.3 <sup>2</sup>	4.0	0.6	0.9	0.4 <sup>2</sup>
March 2005	-	-	-	-	-	-
April 2005	1.4*	0.5* <sup>2</sup>	4.3*	0.7*	3.1*	0.7*
May 2005	1.7	0.5 <sup>2</sup>	5.5	0.9	3.3	0.6
June 2005	4.0	0.8 <sup>2</sup>	8.5	1.9	6.3	1.2
July 2005	2.30	0.40	8.00	1.40	5.00	0.80
August 2005	2.60	0.60	7.70	1.20	5.50	0.90
September 2005	3.40	0.50	8.10	1.50	6.30	1.00
October 2005	3.9	0.9	10.6	1.8	7.7	1.3
November 2005	-	-	-	-	-	-
December 2005	-	-	-	-	-	-
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
January 2005	15		1283		180	
February 2005	20*		1077*		257*	
March 2005	24		1217		264	
April 2005	31*		1214*		193*	
May 2005	18		1271		181	
June 2005	14		1292		231	
July 2005	27		1205		147	
August 2005	27		1241		155	
September 2005	24		793		140	
October 2005	54		368		126	
November 2005	41		430		212	
December 2005	24		1265		212	

<sup>1</sup>: Werkelijke Temperatuur overtrof meetlimiet van sensor.

<sup>2</sup>: Werkelijke Saliniteit buiten meetbereik sensor.

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Oosterweel  
4 meter above bottom [-7 m TAW]

Velocity magnitude [m/s]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	0.01	1.41	0.74
<i>February 2005</i>	0	1.55	0.75
<i>March 2005</i>	0.01	1.53	0.73
<i>April 2005</i>	0	3	0.76
<i>May 2005</i>	0	1.33	0.7
<i>June 2005</i>	0.01	1.36	0.74
<i>July 2005</i>	0	1.30	0.69
<i>August 2005</i>	0	1.33	0.69
<i>September2005</i>	0.01	1.31	0.68
<i>October 2005</i>	0.01	1.28	0.68
<i>November 2005</i>	0	1.33	0.69
<i>December 2005</i>	0	1.37	0.73
Temperature [°C]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	4.7	7.8	6.3
<i>February 2005</i>	3.7	7.3	5.6
<i>March 2005</i>	2.8	11.7	6.4
<i>April 2005</i>	10.8	14.6	12.3
<i>May 2005</i>	14.0	18.2	15.3
<i>June 2005</i>	17.3	22.8	19.3
<i>July 2005</i>	20.0	22.9	21.6
<i>August 2005</i>	19.4	21.5	20.4
<i>September2005</i>	17.4	22.1	20.4
<i>October 2005</i>	14.3	18.8	16.4
<i>November 2005</i>	6.1	16.1	11.8
<i>December 2005</i>	4.5	8.2	6.3

Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
January 2005	-	-	-	-	-	-
February 2005	-	-	-	-	-	-
March 2005	-	-	-	-	-	-
April 2005	-	-	-	-	-	-
May 2005	-	-	-	-	-	-
June 2005	-	-	-	-	-	-
July 2005						
August 2005						
September 2005	8.7	1.5	11.0	4.2	10.1	2.4
October 2005	8.6	1.9	13.0	3.9	11.4	2.8
November 2005	6.7	0.5	12.3	3.8	10.7	2.0
December 2005	5.4	0.5	9.0	1.8	7.1	0.7
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
January 2005	24		1067		124	
February 2005	33		642		167	
March 2005	12		1038		172	
April 2005	12		1075		139	
May 2005	36		1075		123	
June 2005	41		697		151	
July 2005	28		378		111	
August 2005	36		560		119	
September 2005	29		349		92	
October 2005	31		1075		100	
November 2005	44		547		152	
December 2005	29		735		122	

<sup>1</sup>: Werkelijke Temperatuur overtrof meetlimiet van sensor.

<sup>2</sup>: Werkelijke Saliniteit buiten meetbereik sensor.

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Oosterweel  
2 meter above bottom [-9 m TAW]

Velocity magnitude [m/s]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	0	1.18	0.56
<i>February 2005</i>	0.01	1.1	0.55
<i>March 2005</i>	0	1.26	0.6
<i>April 2005</i>	0	1.27	0.65
<i>May 2005</i>	0.01	1.1	0.59
<i>June 2005</i>	0.01	1.14	0.61
<i>July 2005</i>	0.01	1.11	0.6
<i>August 2005</i>	0	1.11	0.58
<i>September2005</i>	0.01	1.17	0.57
<i>October 2005</i>	0.01	1.06	0.58
<i>November 2005</i>	0.01	1.14	0.59
<i>December 2005</i>	0	1.16	0.62
Temperature [°C]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	4.7	7.8	6.3
<i>February 2005</i>	3.8	7.3	5.6
<i>March 2005</i>	2.8	11.7	6.4
<i>April 2005</i>	10.8	14.2	12.3
<i>May 2005</i>	14.0	18.2	15.3
<i>June 2005</i>	17.3	22.8	19.3
<i>July 2005</i>	20.0	22.9	21.6
<i>August 2005</i>	19.4	21.5	20.4
<i>September2005</i>	17.4	22.1	20.4
<i>October 2005</i>	14.3	18.7	16.4
<i>November 2005</i>	6.1	16.2	11.9
<i>December 2005</i>	4.5	8.2	6.3

Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
<i>January 2005</i>	3.5	0.6 <sup>2</sup>	6.6	1.7	5.0	0.8 <sup>2</sup>
<i>February 2005</i>	1.1	0.5 <sup>2</sup>	6.7	1.2	3.7	0.7 <sup>2</sup>
<i>March 2005</i>	2.7	0.6 <sup>2</sup>	5.1	0.9	3.6	0.8 <sup>2</sup>
<i>April 2005</i>	4.0	0.7 <sup>2</sup>	6.5	1.3	5.3	0.9 <sup>2</sup>
<i>May 2005</i>	3.8	0.6 <sup>2</sup>	7.9	1.6	5.9	0.9 <sup>2</sup>
<i>June 2005</i>	7.4	1.2	11.0	3.7	9.3	2.3
<i>July 2005</i>	6.5	0.6	10.4	2.5	8.7	1.5
<i>August 2005</i>	7.3	0.9	10.7	2.8	9.5	1.6
<i>September 2005</i>	7.2	1.1	11.4	4.2	10.3	2.0
<i>October 2005</i>	8.5	1.6	13.5	3.9	11.8	2.6
<i>November 2005</i>	7.2	0.7	13.1	4.2	11.2	2.2
<i>December 2005</i>	5.8	0.7	9.6	2.1	7.5	0.9
Suspended sediment concentration [mg/l]						
Month	Minimum		Maximum		Average	
<i>January 2005</i>	32		1021		142	
<i>February 2005</i>	15		1021		194	
<i>March 2005</i>	16		849		193	
<i>April 2005</i>	16		699		160	
<i>May 2005</i>	39		1029		139	
<i>June 2005</i>	47		576		170	
<i>July 2005</i>	34		1035		125	
<i>August 2005</i>	41		565		130	
<i>September 2005</i>	30		456		99	
<i>October 2005</i>	37		534		110	
<i>November 2005</i>	47		676		172	
<i>December 2005</i>	31		872		136	

<sup>1</sup>: Werkelijke Temperatuur overtrof meetlimiet van sensor.

<sup>2</sup>: Werkelijke Saliniteit buiten meetbereik sensor.

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Oosterweel left bank  
4.5 meter above bottom [-2.3 m TAW]

Velocity magnitude [m/s]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	0	1.5	0.67
<i>February 2005</i>	0.01	1.65	0.66
<i>March 2005</i>	0	1.76	0.67
<i>April 2005</i>	0	1.36	0.68
<i>May 2005</i>	0.01*	1.2*	0.65*
<i>June 2005</i>	0.01	1.22	0.67
<i>July 2005</i>	0*	1.10*	0.67*
<i>August 2005</i>	0	1.40	0.67
<i>September 2005</i>	0	1.45	0.67
<i>October 2005</i>	0	1.37	0.68
<i>November 2005</i>	0*	1.21*	0.66*
<i>December 2005</i>	0	1.27	0.71
Temperature [°C]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	4.8	7.9	6.3
<i>February 2005</i>	3.7	7.3	5.6
<i>March 2005</i>	2.8	11.6	6.3
<i>April 2005</i>	10.7	14.0	12.3
<i>May 2005</i>	13.9*	15.4*	14.6*
<i>June 2005</i>	17.5	22.7	19.7
<i>July 2005</i>	20.1*	22.7*	21.5*
<i>August 2005</i>	15.9	21.6	20.4
<i>September 2005</i>	17.5	22.1	20.4
<i>October 2005</i>	14.3	21.3	16.5
<i>November 2005</i>	6.1*	16.2*	10.7*
<i>December 2005</i>	3.54	8.2	6.4



Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
<i>January 2005</i>	-	-	-	-	-	-
<i>February 2005</i>	-	-	-	-	-	-
<i>March 2005</i>	-	-	-	-	-	-
<i>April 2005</i>	-	-	-	-	-	-
<i>May 2005</i>	-	-	-	-	-	-
<i>June 2005</i>	-	-	-	-	-	-
<i>July 2005</i>	-	-	-	-	-	-
<i>August 2005</i>	-	-	-	-	-	-
<i>September 2005</i>	-	-	-	-	-	-
<i>October 2005</i>	-	-	-	-	-	-
<i>November 2005</i>	-	-	-	-	-	-
<i>December 2005</i>	-	-	-	-	-	-
Turbidity [NTU]						
Month	Minimum		Maximum		Average	
<i>January 2005</i>	6		147		44	
<i>February 2005</i>	6		472		60	
<i>March 2005</i>	1		217		66	
<i>April 2005</i>	6		1001		61	
<i>May 2005</i>	6*		967*		44*	
<i>June 2005</i>	10		486		53	
<i>July 2005</i>	6*		120*		38*	
<i>August 2005</i>	0		481		47	
<i>September 2005</i>	1		156		30	
<i>October 2005</i>	0*		133*		41*	
<i>November 2005</i>	0*		170*		47*	
<i>December 2005</i>	0		185		56	

<sup>1</sup>: Werkelijke Temperatuur overtrof meetlimiet van sensor.

<sup>2</sup>: Werkelijke Saliniteit buiten meetbereik sensor.

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

Location: Oosterweel Left bank  
1 meter above bottom [-5.8 m TAW]

Velocity magnitude [m/s]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	0*	1.06*	0.54*
<i>February 2005</i>	0.01	1.42	0.54
<i>March 2005</i>	0	1.53	0.55
<i>April 2005</i>	0	1.2	0.54
<i>May 2005</i>	0	1.07	0.55
<i>June 2005</i>	0	1.05	0.55
<i>July 2005</i>	0*	0.95*	0.54*
<i>August 2005</i>	0	1.26	0.54
<i>September 2005</i>	0.01*	1.25*	0.53*
<i>October 2005</i>	0.01	1.17	0.54
<i>November 2005</i>	0	1.07	0.54
<i>December 2005</i>	0	3.00	0.57
Temperature [°C]			
Month	Minimum	Maximum	Average
<i>January 2005</i>	4.8*	7.7*	5.9*
<i>February 2005</i>	3.8	7.4	5.6
<i>March 2005</i>	2.8	11.6	6.4
<i>April 2005</i>	10.8	14.1	12.3
<i>May 2005</i>	14.0	18.2	15.3
<i>June 2005</i>	17.4	22.6	19.3
<i>July 2005</i>	20.2*	23.7*	21.5*
<i>August 2005</i>	16.1	21.5	20.4
<i>September 2005</i>	17.5*	21.6*	19.8*
<i>October 2005</i>	14.4	18.8	16.5
<i>November 2005</i>	6.2	16.2	12.3
<i>December 2005</i>	-0.3	8.3	6.5

Salinity [ppt]						
Month	Minimum		Maximum		Average	
	HW	LW	HW	LW	HW	LW
January 2005	4.3*	0.7* <sup>2</sup>	6.7*	1.1*	5.1*	0.9* <sup>2</sup>
February 2005	1.3	0.4 <sup>2</sup>	7.0	1.5	3.5	0.8 <sup>2</sup>
March 2005	2.9	0.8 <sup>2</sup>	5.5	1.1	4.0	0.9 <sup>2</sup>
April 2005	4.3	0.8 <sup>2</sup>	6.9	1.6	5.6	1.1 <sup>2</sup>
May 2005	4.3	0.7	8.0	1.8	6.1	1.0
June 2005	7.4	1.3	11.1	4.1	9.2	2.6
July 2005	6.2*	0.7*	10.5*	2.9*	8.4*	1.6*
August 2005	7.2	1.1	10.4	3.1	9.3	2.0
September 2005	9.4*	1.5*	10.6*	5.5*	10.0*	2.7*
October 2005	8.3	1.8	11.8	4.7	10.6	2.8
November 2005	9.6	2.1	12.2	4.2	11.0	2.7
December 2005	7.1	0.7	9.8	2.6	8.2	1.2
Turbidity [NTU]						
Month	Minimum		Maximum		Average	
January 2005	10*		160*		56*	
February 2005	7		943		77	
March 2005	6		287		83	
April 2005	7		917		76	
May 2005	8		951		58	
June 2005	5		254		71	
July 2005	11*		263*		49*	
August 2005	2		389		57	
September 2005	10*		126*		35*	
October 2005	7		320		41	
November 2005	2		224		70	
December 2005	2		196		65	

<sup>1</sup>: Werkelijke Temperatuur overtrof meetlimiet van sensor.

<sup>2</sup>: Werkelijke Saliniteit buiten meetbereik sensor.

-: Geen data of minder dan 30% van de maandelijkse data beschikbaar.

\*: Minder dan 70% van de maandelijkse data beschikbaar.

**APPENDIX D.**

**MONTLY RESULTS: MINIMUM, MAXIMUM AND**

**AVERAGE SALINITY AT**

**BAALHOEK AND HOOFDPLAAT**

**FOR THE PERIOD 01/07/2005 – 31/12/2005**

Location: Baalhoek

Salinity [ppt] (upper cel)			
Month	Minimum	Maximum	Average
<i>July</i>	10.8	20.6	16.1
<i>August</i>	11.4	21.4	16.7
<i>September</i>	12.4	21.4	17.6
<i>October</i>	13.6	22.6	18.7
<i>November</i>	12.3	23.2	19.0
<i>December</i>	8.2	20.9	15.1
Salinity [ppt] (lower cel)			
Month	Minimum	Maximum	Average
<i>July</i>	11.6	20.8	16.5
<i>August</i>	13.2	22.1	17.3
<i>September</i>	13.4	21.9	18.0
<i>October</i>	15.3	22.4	19.0
<i>November</i>	13.4	23.1	19.4
<i>December</i>	11.6	20.9	15.9

-: No data or less than 30% of monthly data available

\*: Less than 70% of monthly data

Location: Hoofdplaat

Salinity [ppt] (upper cel)			
Month	Minimum	Maximum	Average
<i>July</i>	24.7	31.2	28.2
<i>August</i>	22.3	30.7	28.2
<i>September</i>	26.1	32.2	27.8
<i>October</i>	25.8*	31.4*	28.0*
<i>November</i>	6.7*	31.9*	29.4*
<i>December</i>	24.2	37.0	28.1
Salinity [ppt] (lower cel)			
Month	Minimum	Maximum	Average
<i>July</i>	-	-	-
<i>August</i>	-	-	-
<i>September</i>	-	-	-
<i>October</i>	-	-	-
<i>November</i>	23.5	31.7	29.5
<i>December</i>	11.5*	30.9*	27.7*

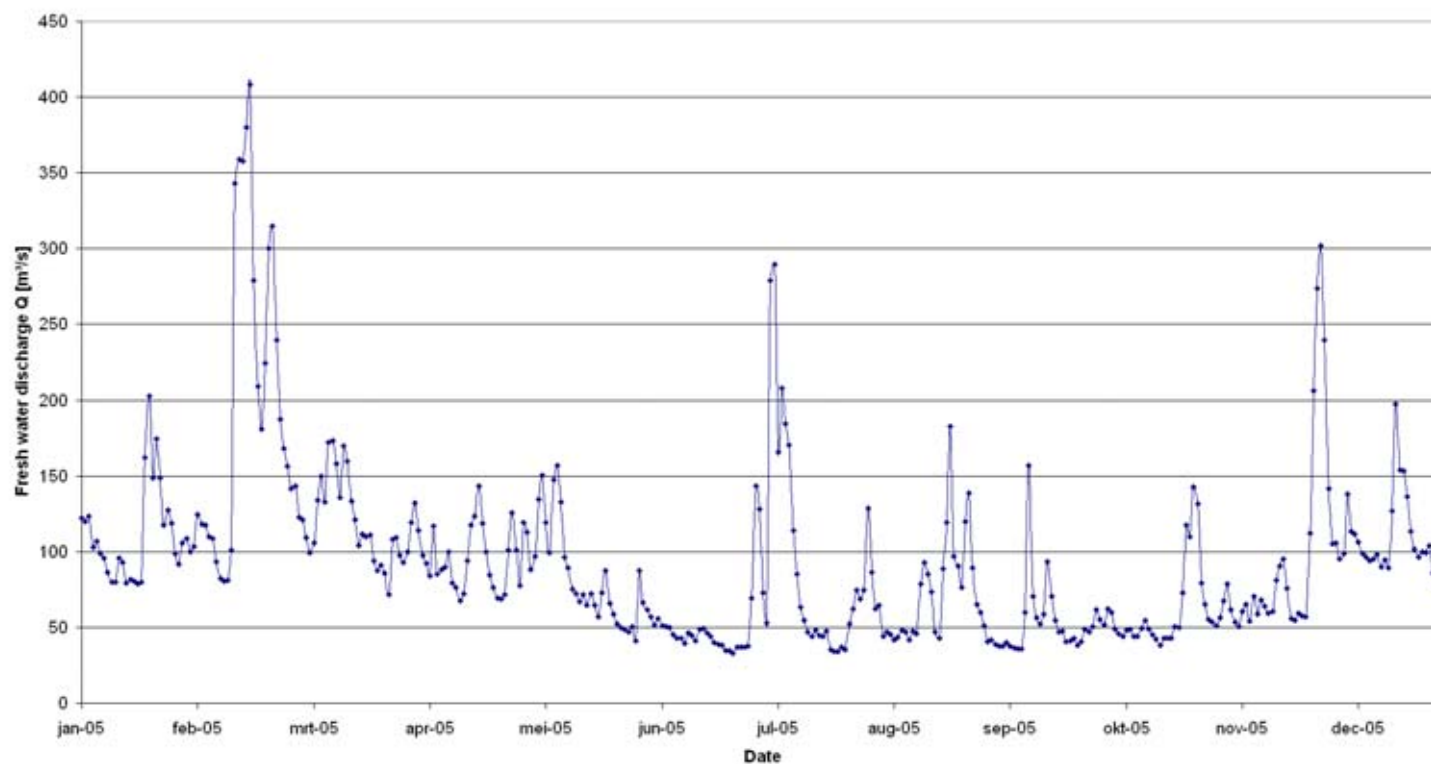
-: No data or less than 30% of monthly data available

\*: Less than 70% of monthly data

## **APPENDIX E.**

## **FRESH WATER DISCHARGE**

## 11265 HCBS – Long term measurements – 2<sup>nd</sup> semester 2005



Fresh water discharge

Location:  
Schelle

Date:  
01/01/2005 – 31/12/2005

Data processed by:

In association with:



**Decade averages of the fresh water discharge [m<sup>3</sup>/s] of the Scheldt at Schelle  
(January 2005 – December 2005)**

	<i>First Decade</i>	<i>Second Decade</i>	<i>Third Decade</i>
<b>1<sup>st</sup> semester</b>			
January	102	110	118
February	102	304	184
March	136	125	100
April	95	99	92
May	122	71	60
June	51	44	50
<b>2<sup>nd</sup> semester</b>			
July	166	52	63
August	49	72	92
September	40	71	47
October	50	46	85
November	63	71	150
December	107	119	103



## **APPENDIX F.            MONTHLY RESULTS**

### **METEOROLOGICAL MEASUREMENTS AT DEURNE**

## *Terminology*

### *Nederlands:*

Druk:  
Bewolking:  
Zon duur:  
Temperaturen:  
Lucht:  
Gras:  
Minimum onder naakte grond:  
Bewolking: 9 = bovenlucht niet zichtbaar  
Ontbrekend gegeven:  
Gem.:  
Min. :  
Max.:  
Rel. vocht.:  
Mist:  
Duur in minuten:  
Neerslag:  
Dag met:  
Wind:  
Snelheid (km/h) en richting:  
\* = Sneeuw:  
▲ = Hagel:  
⚡ = Onweer:  
Neerslag te wijten aan mist of dauw:

### *English:*

Pressure  
Cloudiness  
Duration of Sunshine  
Temperatures  
Air  
Grass  
Minimum under bare soil  
Cloudiness 9 = upper atmosphere invisible  
Missing data  
Average  
Minimum  
Maximum  
Relative Humidity  
Fog  
Duration in minutes  
Precipitation  
Day with  
Wind  
Velocity (km/h) and direction  
\* = Snow  
▲ = Hail  
⚡ = thunderstorm  
Precipitation due to fog or dew

DEURNE 04°28' 18' ' E 51°11' 31' ' N 10 m Periode 00-24 h W.T. JULI 2005

	DRUK	BEWOLKING				ZON	TEMPERATUREN °C									
	hPa	Octas				DUUR	LUCHT			GRAS	MINIMUM ONDERNAAKTE GROND					
	GEM.	Oh	6	12	18	h min	GEM.	MAX.	MIN.	MIN.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1014.5	7	8	6	7	515	18.3	22.7	14.9	13.7	17.0	19.3	18.8	18.7	20.5	19.0
2	1019.9	7	8	7	7	-	18.3	20.6	15.0	10.8	17.1	19.6	19.4	19.2	20.0	18.7
3	1017.3	1	6	5	5	830	20.6	26.4	13.3	10.9	15.8	18.2	18.0	18.1	19.6	18.4
4	1008.1	5	7	7	4	415	17.2	19.2	12.6	10.1	13.3	16.3	16.8	17.7	19.8	18.4
5	1013.5	1	5	6	1	645	15.7	20.1	11.4	9.3	12.3	15.3	15.5	16.2	18.7	18.0
6	1007.9	7	7	7	7	110	15.8	20.4	13.0	12.0	15.9	17.2	17.2	17.2	18.5	17.3
7	1010.5	3	7	7	7	30	14.0	17.9	12.0	10.3	13.9	16.3	16.0	16.0	17.8	17.4
8	1016.3	5	5	8	5	145	15.1	19.1	10.9	7.6	13.3	15.7	15.5	15.6	17.4	17.1
9	1021.5	2	6	5	2	80	17.3	22.9	11.9	7.6	13.5	16.4	15.9	15.8	17.6	16.9
10	1026.5	1	7	2	5	1050	21.6	28.3	15.5	12.7	16.6	18.5	18.0	17.6	18.2	16.9
11	<b>1029.2</b>	5	3	3	1	1055	21.6	26.6	17.2	14.9	18.0	19.9	19.4	19.1	19.2	17.0
12	1028.9	0	8	1	1	840	20.1	26.3	16.6	14.9	18.5	20.7	20.3	19.8	19.8	17.4
13	1025.4	0	7	6	2	110	20.9	26.4	16.4	14.5	19.5	21.7	21.2	20.7	20.5	17.7
14	1020.7	2	2	0	2	1340	22.4	<b>29.5</b>	13.7	11.7	18.0	20.8	20.9	20.8	21.0	18.0
15	1015.1	1	3	5	2	1140	<b>23.2</b>	27.8	17.8	14.8	21.4	23.7	23.4	22.8	21.9	18.4
16	1016.5	4	3	4	6	930	20.6	25.8	15.3	12.7	19.8	22.5	22.5	22.2	22.0	18.8
17	1017.0	1	1	1	1	150	19.6	25.0	12.6	8.9	17.2	20.3	20.7	20.9	21.6	19.1
18	1010.4	1	2	7	8	240	19.7	25.8	15.0	11.4	19.1	21.8	21.8	22.0	21.9	19.3
19	1016.1	6	5	5	6	310	18.6	21.5	16.4	15.8	18.3	20.0	20.4	20.3	21.1	19.3
20	1019.5	6	7	7	5	650	17.9	21.4	14.8	15.4	17.1	20.0	20.2	20.6	20.6	19.1
21	1018.9	3	6	7	8	240	15.7	19.4	13.6	11.4	15.9	18.9	18.7	19.1	20.2	19.0
22	1015.3	6	6	8	7	10	15.6	17.1	13.2	10.8	15.4	18.2	18.3	18.5	19.5	18.7
23	1011.4	1	7	7	6	210	16.6	20.7	12.6	10.6	14.6	17.1	17.0	17.1	18.8	18.4
24	1007.0	7	7	8	8	235	17.5	22.8	13.3	11.0	17.0	19.5	19.0	18.7	19.4	18.3
25	1004.9	6	7	6	6	225	18.4	21.1	15.8	15.4	17.7	19.7	19.1	18.7	19.4	18.3
26	1012.4	7	8	8	7	10	16.6	19.3	14.8	14.1	16.7	18.8	18.4	18.2	19.1	18.1
27	1010.4	7	8	7	6	120	19.7	26.0	14.9	14.5	16.7	18.7	18.0	17.7	18.8	18.0
28	1010.3	5	5	5	8	70	22.6	29.3	16.2	14.8	18.7	20.5	19.8	19.2	19.5	18.0
29	1012.2	6	6	6	7	535	22.6	28.9	16.3	18.0	19.0	21.8	21.2	20.7	20.5	18.2
30	1013.8	7	2	5	4	915	17.8	22.1	14.4	13.4	16.4	19.3	19.3	19.5	20.4	18.5
31	1013.9	5	8	8	7	35	16.2	18.6	14.8	13.6	16.1	18.5	18.2	18.1	19.4	18.5
M	1015.7					1740	18.6	23.2	14.4							

Bewolking : 9 = bovenlucht niet zichtbaar / = Ontbrekend gegeven'

DEURNE 04°28' 18' ' E 51°11' 31' ' N 10 m Periode 00-24 h W.T. JULI 2005

	REL.VOCHT.		MIST			NEERSLAG								WIND						
	%		DUUR IN MINUTEN			1/m2	DUUR		* (cm)		DAG MET			SNELHEID (km/h) en RICHTING						
	GEM.	MIN.	<1000m	<500m	<200m		h min	%	6h	18	*	A	R	GEM.	MAX.		Oh	6h	12h	18h
1	79	58	-	-	-	22.3	339	15	-	-	-	-	-	14	43	W	S	W	WSW	WNW
2	88	79	-	-	-	0.5	233	11	-	-	-	-	-	11	32	S	SW	S	WSW	WSW
3	82	65												7	29	SW	SE	SE	SW	N
4	85	60	-	-	-	26.5	419	18	-	-	-	-	X	14	54	SSW	ENE	SSE	SSW	WSW
5	71	54	-	-	-	<0.1	38	3	-	-	-	-	-	14	43	SW	SW	SW	W	S
6	89	72	-	-	-	15.0	634	27	-	-	-	-	X	14	40	SW	SE	S	WSW	W
7	90	75	-	-	-	8.0	70	29	-	-	-	-	-	11	32	NNW	SW	S	NNE	NNW
8	90	73	-	-	-	10.7	429	19	-	-	-	-	-	4	32	NW	WNW	W	W	S
9	84	64	130	60	-	-	-	-	-	-	-	-	-	7	25	NE	-	NNE	NNE	NNE
10	76	54	93	45	-	-	-	-	-	-	-	-	-	11	36	NNE	N	NNW	NNE	NNE
11	76	63												11	29	N	NNE	N	NNE	N
12	84	69								-	-			11	29	NE	NNE	NE	NE	NNW
13	82	61												7	25	WNW	NNW	N	WNW	NNW
14	74	47	-	-	-	-	-	-	-	-	-	-	-	4	14	SE	N	-	ESE	ESE
15	69	48												14	40	W	S	WSW	NW	WNW
16	75	60											-	7	32	NNW	NNE	-	W	NNW
17	71	57												7	22	ESE	NNW	NE	ESE	ESE
18	80	60	-	-	-	1.1	37	3	-	-	-	-	-	11	36	WSW	E	SSE	SE	W
19	71	54												22	43	W	WSW	WSW	WSW	N
20	72	52												25	65	WNW	SW	SW	W	WNW
21	81	64	-	-	-	0.3	36	3	-	-	-	-	-	18	40	WNW	SW	W	WNW	W
22	81	71	-	-	-	<0.1	18	1	-	-	-	-	-	14	40	WNW	WNW	WNW	WNW	NW
23	78	63	-	-	-	-	-	-	-	-	-	-	-	11	29	WSW	W	WSW	WSW	E
24	87	62	-	-	-	2.7	455	20	-	-	-	-	-	7	29	S	E	ENE	SW	SSE
25	87	69	-	-	-	7.8	229	10	-	-	-	-	-	14	47	w	SSW	S	SW	N
26	79	68	-	-	-	0.2	321	14	-	-	-	-	-	7	25	NNW	WNW	VR	E	NE
27	82	67	-	-	-	1.8	48	17	-	-	-	-	-	7	25	WSW	ENE	E	WSW	SSW
28	84	64	-	-	-	16.0	34	2	-	-	-	-	X	7	50	NNW	-	E	SW	NNE
29	78	51	-	-	-	14.3	310	13	-	-	-	-	X	11	47	WSW	S	SW	S	-
30	78	60	-	-	-	5.7	117	5	-	-	-	-	X	14	36	WSW	W	WSW	WSW	NW
31	84	72	-	-	-	4.6	349	16	-	-	-	-	-	14	36	W	SSW	SSW	W	W
M	80		223	105	-	137.5	5426				-	-	5	11						

\* = Sneeuw A = Hagel R = Onweer <0.1 = Neerslag to wijten aan mist of dauw

DEURNE 04°28' 18' ' E 51°11' 31' ' N 10 m Periode 00-24 h W.T. AUGUSTUS 2005

	DRUK	BEWOLKING				ZON	TEMPERATUREN °C									
	hPa	Octas				DUUR	LUCHT			GRAS	MINIMUM ONDER NAAKTE GROND					
	GEM.	Oh	6	12	18	h min	GEM.	MAX.	MIN.	MIN.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1019.5	7	7	7	7	120	16.6	20.5	14.3	12.7	16.1	18.2	17.7	17.4	18.7	18.1
2	1022.3	3	0	4	2	950	16.8	21.6	11.6	9.0	15.1	17.6	17.0	17.4	18.8	18.0
3	1021.9	1	5	5	1	845	16.7	22.8	10.2	8.3	13.7	16.3	16.4	16.8	18.7	17.9
4	<b>1025.4</b>	1	1	6	2	1135	17.3	22.0	12.9	10.0	14.3	16.7	16.5	17.0	18.6	17.0
5	1019.5	1	6	8	8	10	16.1	17.7	13.5	10.7	15.0	17.2	17.1	17.3	18.7	17.8
6	1019.6	3	7	5	6	430	15.7	19.0	12.7	9.3	13.8	16.3	16.3	16.4	18.0	17.6
7	1016.5	6	5	7	7	620	14.8	17.4	12.3	11.2	14.4	16.5	16.4	16.5	17.8	17.4
8	1017.9	5	7	7	7	130	15.3	18.2	12.8	11.6	14.3	16.5	15.9	15.8	17.3	17.1
9	1016.9	7	6	5	5	520	15.7	20.3	11.7	8.9	13.0	15.6	15.2	15.4	17.2	16.9
10	1015.7	5	2	6	5	740	16.2	19.3	12.6	9.1	14.0	16.2	15.9	15.9	17.3	16.8
11	1015.6	8	7	6	6	420	18.2	22.5	14.1	11.3	16.4	18.2	17.4	16.9	17.6	16.8
12	1014.4	3	7	3	2	520	16.6	21.0	10.6	6.6	13.8	16.7	17.0	16.9	17.6	16.9
13	1017.5	0	3	5	8	750	16.3	22.5	<b>6.6</b>	<b>5.0</b>	12.4	15.1	14.8	15.5	17.5	16.9
14	1013.1	8	6	5	7	610	16.6	19.8	14.3	13.8	16.0	15.5	17.6	17.2	17.8	16.9
15	1023.0	7	5	7	7	50	15.8	17.9	13.4	11.2	14.3	16.6	16.2	16.2	17.6	16.9
16	1024.0	1	3	7	1	455	16.1	21.6	10.2	7.5	13.2	15.7	15.4	15.6	17.2	16.8
17	1020.7	0	1	0	0	1155	18.6	25.0	10.6	7.7	13.5	15.6	15.4	15.9	17.4	16.7
18	1014.8	0	0	0	0	1020	20.7	26.8	13.4	10.6	15.6	17.2	17.5	17.8	18.3	16.8
19	1013.5	0	4	8	8	120	18.1	21.6	15.4	13.3	17.5	19.8	19.5	19.1	19.1	17.0
20	1017.5	7	8	6	7	225	17.6	20.5	15.8	15.6	17.3	19.5	19.0	18.3	18.8	17.4
21	1021.3	8	7	6	7	420	17.9	22.2	15.3	12.7	16.4	18.3	18.0	17.8	18.7	17.4
22	1017.3	0	7	4	5	515	18.3	22.9	13.3	12.7	15.5	17.8	17.9	17.7	18.7	17.4
23	1016.7	4	8	7	5	155	16.8	19.3	10.2	7.0	13.6	16.5	16.9	17.5	18.9	17.5
24	1013.5	3	4	5	8	60	16.0	20.7	9.0	6.9	12.4	15.1	15.2	15.7	17.9	17.3
25	<b>1005.8</b>	8	8	5	5	235	<b>14.6</b>	18.5	12.4	11.0	12.9	15.5	15.7	16.3	17.9	17.2
26	1015.8	1	6	5	7	435	<b>14.6</b>	19.2	10.8	9.2	11.6	14.1	14.0	14.7	17.0	17.0
27	1019.2	2	5	6	6	210	15.9	20.7	11.6	9.0	12.9	15.1	14.7	15.0	16.8	16.7
28	1023.0	0	2	5	3	1115	17.1	23.7	9.1	7.9	12.5	14.8	14.8	15.3	16.9	16.7
29	1024.6	0	0	0	0	1225	19.2	26.4	10.8	8.8	13.7	16.3	16.0	16.3	17.5	16.7
30	1025.3	0	1	1	1	120	20.3	26.8	12.8	10.0	14.8	17.3	17.3	17.5	18.2	16.8
31	1015.6	0	1	1	1	1215	<b>22.0</b>	<b>30.7</b>	13.7	12.2	16.0	18.5	18.3	18.4	18.9	17.0
M	1018.3					18710	17.0	21.6	12.2							

Bewolking : 9 = bovenlucht niet zichtbaar / = Ontbrekend gegeven

DEURNE 04°28' 18' ' E 51°11' 31' ' N 10 m Periode 00-24 h W.T. SEPTEMBER 2005

	DRUK	BEWOLKING				ZON	TEMPERATUREN °C									
	hPa	Octas				DUUR	LUCHT			GRAS	MINIMUM ONDER NAAKTE GROND					
	GEM.	Oh	6	12	18	h min	GEM.	MAX.	MIN.	MIN.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1015.8	0	5	7	7	115	19.8	21.8	16.7	14.4	18.8	20.9	20.4	19.9	19.8	17.3
2	1025.6	7	1	3	7	945	19.4	24.6	15.1	13.8	16.1	18.5	18.3	18.3	19.3	17.7
3	<b>1028.7</b>	6	7	3	0	610	18.9	24.2	14.4	11.2	16.7	19.5	19.0	18.8	19.4	17.7
4	1023.6	0	1	1	4	115	18.8	26.8	12.2	9.2	15.2	17.5	17.8	18.4	19.3	17.9
5	1014.8	2	2	1	7	910	20.9	<b>28.6</b>	12.8	10.2	16.4	17.1	18.5	18.7	19.7	17.9
6	1011.4	1	5	5	6	635	20.9	26.1	17.2	13.0	19.1	21.5	21.0	20.4	20.3	18.0
7	1013.1	0	2	4	4	845	19.9	25.8	13.2	11.5	17.0	19.4	19.3	19.4	20.2	18.2
8	1014.3	0	0	1	1	1035	<b>21.0</b>	28.5	13.6	11.9	17.3	19.7	19.5	19.6	20.3	18.4
9	1011.7	1	5	6	8	5	20.9	24.8	17.2	14.3	20.1	22.2	21.6	21.0	20.8	18.5
10	<b>1010.6</b>	6	1	6	7	240	19.9	24.7	15.4	14.0	18.6	20.4	20.2	20.0	20.5	18.7
11	1011.8	7	8	7	8	20	19.2	23.3	17.1	16.4	19.0	21.0	20.3	19.8	20.2	18.7
12	1019.3	8	8	7	5	15	17.6	19.8	13.7	9.6	15.0	17.6	17.8	18.3	19.7	18.6
13	1026.0	3	4	4	1	940	15.8	22.0	10.3	5.9	13.7	16.5	15.9	16.5	18.8	18.4
14	1022.8	2	7	7	8	150	16.8	18.6	14.3	8.1	14.9	17.1	17.2	17.3	18.6	18.1
15	1015.7	8	7	8	8	35	17.9	20.0	16.4	16.3	18.0	19.7	18.8	18.0	18.5	17.9
16	1012.4	7	7	3	2	55	13.3	17.3	9.7	6.1	11.2	13.9	14.4	15.4	17.9	17.7
17	1023.4	5	3	3	2	850	11.9	16.3	6.7	2.5	10.0	12.9	13.5	14.3	17.0	17.0
18	1028.4	0	1	1	0	1040	11.0	17.5	3.5	<b>0.6</b>	9.2	12.0	11.9	13.1	16.3	17.0
19	1027.2	0	0	0	0	1035	11.7	19.0	4.4	0.8	8.6	11.6	12.3	13.3	16.1	16.0
20	1025.9	0	3	4	5	820	12.8	20.0	4.7	1.7	9.0	11.9	12.5	13.5	15.9	16.4
21	1024.3	0	0	0	1	825	13.2	20.4	6.0	4.4	10.5	13.0	13.2	13.7	15.9	16.3
22	1020.9	0	0	1	2	950	13.6	22.0	6.5	2.7	9.8	12.6	12.9	13.7	16.0	16.2
23	1015.9	0	2	3	6	755	15.5	23.2	6.8	5.3	10.9	13.5	13.6	14.2	16.2	16.2
24	1017.8	7	8	4	5	65	16.0	20.7	10.9	8.7	14.9	17.3	17.0	16.3	16.8	16.1
25	1013.8	2	3	6	4	545	15.8	20.0	10.8	9.8	14.8	16.8	16.4	16.3	17.1	16.3
26	1018.5	0	2	3	7	340	15.4	19.1	12.6	11.6	13.3	15.6	15.5	15.5	16.8	16.3
27	1017.7	3	5	8	7	10	15.1	17.2	12.9	11.8	13.8	15.9	15.7	15.6	16.6	16.3
28	1020.3	1	1	5	8	625	13.7	17.2	11.5	10.4	12.1	14.5	14.4	14.5	16.1	16.1
29	1018.3	8	3	5	4	650	12.8	15.6	10.2	10.2	11.0	13.3	13.3	13.9	15.7	15.9
30	1021.5	0	7	7	7	-	12.2	14.6	9.4	8.3	10.7	12.8	12.7	12.8	15.0	15.5
M	1019.0					17810	16.4	21.3	11.5							

Bewolking : 9 = bovenlucht niet zichtbaar / = Ontbrekend gegeven

DEURNE 04°28' 18' ' E 51°11' 31' ' N 10 m Periode 00-24 h W.T. SEPTEMBER 2005

	REL.VOCHT.		MIST			NEERSLAG								WIND						
	%		DUUR IN MINUTEN			1/m2	DUUR		* (cm)		DAG MET			SNELHEID (km/h) en RICHTING						
	GEM.	MIN.	<1000m	<500m	<200m		h min	%	6h	18	*	?	R	GEM.	MAX.	Oh	6h	12h	18h	
1	82	70	-	-	-	0.1	48	3	-	-	-	-	-	11	36	WSW	E	<b>WSW</b>	<b>WSW</b>	SSW
2	79	58	-						-					7	29	W	WSW	SSW	NW	N
3	84	66	226	165									-	11	22	E	NE	ENE	ENE	NE
4	71	54	-		-				-					11	25	E	E	E	E	E
5	78	56												11	22	SE	ESE	E	SE	W
6	81	63											X	7	29	SSE	-	S	SSE	SSW
7	82	64												7	22	W	-	ESE	W	NE
8	78	53	-						-					7	29	SSW	-	E	SW	S
9	86	67	-	-	-	0.5	340	15	-	-	-	-	-	4	18	S	ENE	E	VR	-
10	91	73	-	-	-	15.0	454	20	-	-	-	-	X	7	25	N	E	SE	SSE	N
11	93	77	55	-	-	0.6	140	7	-	-	-	-	X	7	22	NNE	WSW	W	VR	N
12	86	73	-	-	-	<0.1	48	3	-	-	-	-	-	11	32	ENE	N	N	N	N
13	83	60						-						4	14	SSE	NNE	-	SSE	SW
14	90	77	-	-	-	0.1	49	17	-	-	-	-	-	14	40	WSW	S	<b>WSW</b>	<b>WSW</b>	SW
15	92	77	-	-	-	11.3	925	39	-	-	-	-	-	18	43	<b>WSW</b>	SW	<b>W</b>	<b>WSW</b>	<b>WSW</b>
16	79	58	-	-	-	1.4	450	20	-	-	-	-	-	18	47	NNW	<b>WSW</b>	N	N	NNE
17	73	55	-	-	-	0.1	7	0	-	-	-	-	-	11	36	N	N	NW	NNW	NNW
18	77	53		-								-		4	18	NNE	-	-	VR	NNE
19	77	50			-				-					4	22	ESE	-	VR	E	E
20	82	62						-						4	18	NW	-	-	SSW	N
21	82	55	190	159	35	-	-	-	-	-	-	-	-	4	14	ESE	-	N	SE	NNE
22	78	46	-			-				-	-			4	18	SSE	-	E	SSE	
23	74	47	-	-	-	<0.1	10	1	-	-	-	-	-	7	29	SSW	-	ESE	S	S
24	84	60	135	30	-	0.7	42	3	-	-	-	-	-	7	29	WNW	<b>WNW</b>	<b>WSW</b>	SW	E
25	81	62	-	-	-	0.2	50	3	-	-	-	-	-	11	36	SW	ESE	SE	<b>WSW</b>	SW
26	80	61	-	-	-	<0.1	5	0	-	-	-	-	-	14	40	<b>WSW</b>	SSW	SSW	<b>WSW</b>	SW
27	86	76	-	-	-	4.0	540	24	-	-	-	-	-	14	36	SW	S	SSW	SW	SW
28	77	54											-	14	32	<b>WSW</b>	SW	SW	W	SW
29	75	61	-	-	-	4.3	25	9	-	-	-	-	-	22	50	W	SSW	WSW	W	WSW
30	87	78	-	-	-	3.1	82	33	-	-	-	-	-	18	40	SSW	<b>WSW</b>	SSW	SSW	SSW
M	82		606	354	35	41.4	4755				-	-	3	10						

\* = Sneeuw ? = Hagel = Onweer <0.1 = Neerslag to wijten aan mist of dauw

DEURNE 04°28' 18" ' E 51°11' 31" ' N 10 m Periode 00-24 h W.T. NOVEMBER 2005

	DRUK	BEWOLKING				ZON	TEMPERATUREN °C									
	hPa	Octas				DUUR	LUCHT			GRAS	MINIMUM ONDER NAAKTE GROND					
	GEM.	Oh	6	12	18	h min	GEM.	MAX.	MIN.	MIN.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1014.3	7	6	5	1	350	12.3	15.6	5.7	2.3	8.7	11.2	11.2	11.9	14.0	13.6
2	1011.9	2	8	6	7	-	12.9	16.5	7.8	2.2	9.0	11.2	11.2	11.9	13.3	13.5
3	1010.1	7	1	4	5	650	16.3	18.9	14.0	12.1	12.2	14.6	13.8	13.1	13.5	13.3
4	1013.9	3	7	6	5	40	13.1	14.7	9.2	8.3	9.9	11.9	11.8	12.2	13.7	13.3
5	1022.0	4	2	5	5	640	9.4	12.1	6.8	6.0	8.0	10.3	10.2	10.5	12.7	13.2
6	1022.4	5	1	5	5	720	11.6	14.5	9.0	8.0	8.2	10.0	10.3	10.4	12.3	12.9
7	1021.2	8	8	5	4	325	11.3	15.3	7.7	7.5	9.4	11.4	11.2	11.2	12.3	12.7
8	1018.8	4	5	1	0	620	11.9	18.2	5.4	3.3	7.9	10.2	10.4	10.7	12.2	12.6
9	1021.9	0	1	8	6	10	9.2	11.5	3.0	1.5	6.3	8.8	9.1	9.5	11.6	12.4
10	<b>1032.6</b>	0	0	7	8	230	8.3	11.7	3.0	0.3	5.4	7.2	7.9	8.5	11.0	12.1
11	1025.4	8	7	8	5	115	11.3	12.9	10.0	9.9	10.4	11.9	10.8	10.1	11.0	11.9
12	1016.0	7	8	8	7	-	8.9	10.6	7.3	6.8	9.3	11.1	10.4	10.0	11.4	11.8
13	1023.1	7	6	5	5	255	8.0	<b>12.3</b>	4.9	0.9	6.5	8.8	9.6	9.4	11.1	11.7
14	1025.6	0	2	5	5	520	<b>6.2</b>	11.1	0.6	-1.0	4.8	7.2	6.8	7.4	10.4	11.5
15	1010.7	8	7	7	7	-	6.4	8.6	4.0	3.7	6.2	7.9	7.4	7.7	9.8	11.2
16	1004.7	7	7	6	2	135	8.0	8.0	4.8	4.7	5.5	7.4	7.2	7.5	9.7	10.9
17	1013.0	6	6	7	7	130	5.0	6.9	3.0	1.1	4.6	6.8	6.8	7.0	9.2	10.5
18	1022.2	5	2	1	0	550	4.2	8.3	-1.4	-3.4	2.5	5.0	5.3	5.9	8.7	10.2
19	1030.0	1	0	3	7	425	1.6	7.7	-3.2	-5.2	1.3	3.7	3.7	4.4	7.9	9.8
20	1032.1	7	7	8	8	-	2.2	3.5	1.3	2.2	4.3	6.0	5.5	5.5	7.7	9.5
21	1032.5	7	7	7	7	10	5.7	11.0	1.9	1.8	4.2	6.0	5.5	5.4	7.6	9.3
22	1037.8	3	1	6	5	125	2.6	5.6	-1.2	-3.0	2.0	4.3	4.4	5.0	7.6	9.2
23	1036.0	6	7	7	6	5	2.9	5.3	-0.1	-2.1	3.1	5.2	4.9	5.0	7.3	9.0
24	1013.6	6	7	7	8	-	2.9	4.7	0.6	-1.1	3.4	5.3	5.0	5.0	7.1	8.6
25	986.1	8	7	7	8	-	2.2	4.7	0.1	1.4	1.5	3.5	3.1	3.0	6.6	8.4
26	986.0	7	8	7	8	-	1.6	2.9	0.1	-1.1	1.2	3.1	2.7	2.4	5.9	8.0
27	992.4	5	8	6	7	-	2.0	3.2	1.0	-1.1	2.2	4.2	3.6	3.3	5.8	7.7
28	997.6	8	7	8	8	10	2.8	4.6	1.2	-0.7	2.4	4.3	3.8	3.4	5.7	7.5
29	1005.6	3	7	6	1	45	2.4	4.6	0.7	0.2	2.0	4.0	3.5	3.4	5.7	7.4
30	1012.3	6	2	6	7	125	2.3	4.5	0.6	-0.5	1.3	3.4	3.1	3.3	5.6	7.3
M	1016.4					6525	6.8	9.7	3.6							

Bewolking : 9 = bovenlucht niet zichtbaar / = Ontbrekend gegeven



DEURNE 04°28' 18'' E 51 ° 11' 31'' N 10m Periode 00-24 h W.T. NOVEMBER 2005

	REL.VOCHT.		MIST			NEERSLAG									WIND						
	%		DUUR IN MINUTEN				DUUR		* (cm)		DAG MET			SNELHEID (km/h) en RICHTING							
	GEM.	MIN.	<1000m	<500m	<200m	1/m2	h min	%	6h	18	*	?	R	GEM.	MAX.		Oh	6h	12h	18h	
1	81	64	-	-	-	<0.1	4	0	-	-	-	-	-	18	50	SW	SSW	<b>SSW</b>	<b>SW</b>	SW	
2	91	85	-	-	-	8.6	93	38	-	-	-	-	-	18	40	SSW	SE	SE	S	S	
3	76	61	-	-	-	0.5	114	5	-	-	-	-	-	25	58	SSW	S	S	S	SSW	
4	83	77	-	-	-	0.5	44	3	-	-	-	-	-	14	32	SSW	S	SSW	WSW	WSW	
5	82	54	-	-	-	-	-	-	-	-	-	-	-	18	36	SW	SSW	SW	SW	SSW	
6	79	67	-	-	-	0.3	138	7	-	-	-	-	-	22	50	SSW	SSW	S	SSW	S	
7	90	76	-	-	-	5.4	53	21	-	-	-	-	-	14	40	SSW	SSW	SSW	SW	S	
8	82	52	-	-	-	-	-	-	-	-	-	-	-	14	36	SSE	S	SSE	SSE	SE	
9	84	75	-	-	-	0.2	146	7	-	-	-	-	-	11	25	SSW	SE	S	W	NW	
10	84	61	-	-	-	<b>&lt;0.1</b>	545	24	-	-	-	-	-	14	40	SW	SW	SSW	SSW	SSW	
11	<b>84</b>	75	-	-	-	-	-	-	-	-	-	-	-	22	43	' S	SSW	SW	SSW	SSW	
12	85	77	-	-	-	2.1	627	27	-	-	-	-	-	11	40	SSW	S	SSW	S	SSE	
13	88	72	-	-	-	-	-	-	-	-	-	-	-	4	14	NNW	-	-	NNW	-	
14	88	62	45	-	-	-	-	-	-	-	-	-	-	4	18	SSW	N	-	<b>ESE</b>	SSW	
15	95	90	10	-	-	2.8	104	42	-	-	-	-	-	14	32	<b>SW</b>	SSW	<b>ESE</b>	<b>SW</b>	<b>SW</b>	
16	82	66	-	-	-	5.9	238	11	-	-	-	-	-	14	50	WNW	<b>W</b>	WSW	W	W	
17	88	82	-	-	-	8.6	546	24	-	-	-	-	-	14	32	W	WSW	WSW	WNW	W	
18	85	63	-	-	-	0.1	50	3	-	-	-	-	-	7	22	NNW	WSW	W	NNW	-	
19	90	73	52	-	-	-	-	-	-	-	-	-	-	4	11	SSW	-	-	SSW	S	
20	95	91	174	45	-	-	-	-	-	-	-	-	-	11	18	SW	SW	SW	SW	SW	
21	91	84	260	172	90	<0.1	28	2	-	-	-	-	-	7	25	NNW	SSW	W	W	N	
22	81	<b>63</b>	-	-	-	-	-	-	-	-	-	-	-	7	22	E	ENE	ENE	E	VR	
23	86	76	-	-	-	<0.1	50	21	-	-	-	-	-	4	14	NNE	NNE	ENE	SSE	NNE	
24	90	76	-	-	-	5.4	524	23	-	-	-	-	-	14	61	W	-	<b>SSW</b>	SSW	SSW	
25	81	65	-	-	-	12.2	928	39	-	-	X	-	-	36	79	WSW	WSW	W	<b>WSW</b>	SW	
26	93	88	-	-	-	4.7	417	18	5	<1	X	X	-	18	47	<b>SW</b>	SW	SW	<b>SSW</b>	WSW	
27	90	79	-	-	-	1.0	228	10	-	-	X	-	-	7	18	W	W	WSW	NW	SW	
28	91	82	-	-	-	0.3	152	8	-	-	-	-	-	11	29	<b>WSW</b>	WSW	SSW	WSW	SW	
29	90	80	-	-	-	0.7	127	6	-	-	-	-	-	11	25	WSW	SW	SW	WSW	WSW	
30	87	80	-	-	-	<0.1	20	1	-	-	-	-	-	14	43	S	<b>SW</b>	SW	SSW	SSW	
M	86		541	217	90	59.3	8146				3	1	-	13							

\* = Sneeuw ? = Hagel R = Onweer <0.1 = Neerslag te wijten aan mist of dauw

DEURNE 04°28' 18" ' E 51°11' 31" ' N 10 m Periode 00-24 h W.T. DECEMBER 2005

	DRUK	BEWOLKING				ZON	TEMPERATUREN °C									
	hPa	Octas				DUUR	LUCHT			GRAS	MINIMUM ONDER NAAKTE GROND					
	GEM.	Oh	6	12	18	h min	GEM.	MAX.	MIN.	MIN.	-2cm	-5cm	-10cm	-20cm	-50cm	-100cm
1	1007.2	7	1	4	5	530	1.2	3.8	-1.7	-3.7	0.9	2.0	2.6	2.8	5.3	7.1
2	993.4	0	5	7	6	-	4.2	8.3	-0.4	-1.7	0.7	1.8	2.3	2.3	4.8	6.8
3	992.6	7	5	7	7	25	8.2	9.1	7.4	5.3	4.8	5.3	5.0	4.0	5.1	6.7
4	993.3	7	3	7	6	-	7.9	9.2	6.2	6.2	6.0	7.7	5.7	6.0	6.0	6.8
5	997.6	7	6	7	6	-	6.5	7.8	4.8	4.0	5.1	7.0	5.6	6.0	6.8	6.9
6	1004.2	7	8	8	5	-	5.4	6.2	4.7	3.5	4.9	6.0	6.2	5.8	6.8	7.2
7	1013.3	7	5	7	6	55	5.7	7.8	3.9	4.4	4.3	5.2	5.8	5.6	6.7	7.2
8	1017.2	4	7	6	0	15	4.3	7.5	1.7	0.3	2.9	4.0	4.8	4.5	6.5	7.2
9	1036.4	7	5	5	2	445	1.9	5.2	-3.1	-5.8	1.1	2.4	3.2	3.7	6.1	7.2
10	1042.2	1	/	/	/	-	-2.7	-0.9	-4.4	-5.8	0.8	1.9	2.4	2.5	5.1	6.9
11	<b>1039.2</b>	1	5	2	6	415	0.1	5.9	-4.9	-5.8	0.7	1.6	2.3	2.2	4.7	6.5
12	1035.5	7	8	7	3	5	5.6	8.5	3.5	5.6	3.2	3.5	3.6	3.1	4.8	6.3
13	1036.0	7	7	7	8	20	6.9	8.2	5.3	3.3	5.0	5.6	5.6	4.8	5.4	6.3
14	1028.6	7	7	5	7	145	6.7	<b>8.6</b>	5.3	5.0	5.3	4.8	5.8	5.3	5.9	6.4
15	1021.4	6	7	8	6	-	<b>7.1</b>	8.4	5.5	4.2	6.0	6.4	6.5	5.8	6.4	6.5
16	1007.5	7	8	8	5	-	6.9	10.0	3.1	2.1	3.5	4.7	5.5	5.5	6.5	6.7
17	1013.4	7	7	7	2	130	2.3	4.2	0.5	0.3	1.6	2.8	3.5	3.6	6.0	6.8
18	1021.5	7	3	6	3	40	1.6	3.8	0.2	-0.2	1.4	2.2	3.0	3.0	5.2	6.5
19	1021.9	6	8	5	3	10	4.3	8.1	1.7	-0.3	2.0	2.6	3.1	3.0	5.0	6.3
20	1030.4	6	8	8	8	-	2.6	3.5	1.8	1.0	2.6	3.5	4.1	3.7	5.2	6.2
21	1032.4	7	7	8	8	-	4.4	6.0	3.1	3.1	3.9	4.5	4.6	4.1	5.3	6.1
22	1029.9	8	8	8	7	-	6.5	8.1	4.3	4.3	5.2	5.6	5.7	4.9	5.5	6.1
23	1027.2	7	7	8	7	-	7.4	8.1	6.9	6.6	6.5	6.9	6.8	6.0	6.0	6.2
24	1024.5	7	7	6	6	15	7.4	9.2	5.4	3.3	6.1	6.8	6.9	6.1	6.4	6.3
25	1023.6	7	8	3	1	435	5.1	6.9	3.0	-0.3	3.0	4.2	5.0	5.0	6.5	6.5
26	1016.2	7	6	1	8	320	3.0	5.8	-1.8	-3.5	1.1	2.4	3.4	3.8	6.0	6.6
27	1011.5	1	6	7	8	5	-1.3	-0.6	-2.5	-3.5	0.7	1.8	2.3	2.3	4.8	6.4
28	1013.5	8	8	6	1	25	-1.5	-0.8	-2.9	-6.0	-0.4	1.2	1.7	1.7	4.1	5.9
29	1015.2	0	0	7	7	-	-2.7	0.2	-7.6	-8.7	-1.3	0.6	1.4	1.3	3.6	5.6
30	1008.4	7	0	6	8	5	-1.6	2.0	-3.1	-4.5	-0.9	0.6	1.3	1.1	3.3	5.2
31	996.9	8	7	7	6	5	5.1	6.9	-2.0	-1.6	0.5	1.0	1.4	1.1	3.1	4.8
M	1017.8					3245	3.8	6.0	1.4							

Bewolking : 9 = bovenlucht niet zichtbaar / = Ontbrekend gegeven

DEURNE 04°28' 18'' E 51°11' 31'' N 10 m Periode 00-24 h W.T. DECEMBER 2005

	REL.VOCHT.		MIST			NEERSLAG								WIND					
	%		DUUR IN MINUTEN			1/m2	DUUR		* (cm)		DAG MET			SNELHEID (km/h) en RICHTING					
	GEM.	MIN.	<1000m	<500m	<200m		h min	o	6h	18	*	A	R	GEM.	MAX.	Oh	6h	12h	18h
1	78	62	-	-	-	-	-	-	-	-	-	-	-	14	36	SSW	SSW	SSE	SE
2	81	71	-	-	-	0.3	135	7	-	-	-	-	-	18	40	SE	ESE	ESE	SE
3	76	71	-	-	-	0.2	15	5	-	-	-	-	-	22	47	SSW	SSE	S	S
4	87	76	-	-	-	6.9	415	18	-	-	-	-	-	14	32	SSW	SSW	SSW	WNW
5	88	82	-	-	-	<0.1	28	2	-	-	-	-	-	14	29	SW	SSW	SW	SW
6	91	86	-	-	-	0.3	225	10	-	-	-	-	-	11	25	WSW	SSW	SSW	SW
7	89	84	-	-	-	1.1	122	6	-	-	-	-	-	14	32	WSW	WSW	W	WSW
8	89	78	-	-	-	-	-	-	-	-	-	-	-	7	22	E	SSE	ESE	NNE
9	89	79	-	-	-	-	-	-	-	-	-	-	-	4	11	NNE	N	NNE	E
10	96	93	1299	1288	941	-	-	-	-	-	-	-	-	0	7	ESE	-	-	-
11	86	63	-	-	-	-	-	-	-	-	-	-	-	0	11	SE	-	-	-
12	83	72	-	-	-	<0.1	135	7	-	-	-	-	-	7	29	NNE	S	N	N
13	75	67	-	-	-	<0.1	30	2	-	-	-	-	-	7	29	NW	NNE	NNW	NW
14	85	78	-	-	-	1.7	142	7	-	-	-	-	-	11	25	W	W	NNW	NNW
15	/	75	-	-	-	0.1	10	1	-	-	-	-	-	14	32	W	W	W	W
16	82	62	-	-	-	9.5	858	37	-	-	-	-	-	25	58	W	W	WNW	NNW
17	83	72	-	-	-	1.6	329	15	-	-	X	X	-	18	61	NW	WNW	NW	WNW
18	88	77	-	-	-	<0.1	210	9	-	-	X	X	-	14	29	W	W	W	WSW
19	89	76	-	-	-	1.2	249	12	-	-	-	-	-	14	40	SSW	SW	SSW	W
20	97	91	525	420	60	-	-	-	-	-	-	-	-	11	25	W	SW	SW	SW
21	88	80	-	-	-	<0.1	117	5	-	-	-	-	-	11	36	SW	SSW	SSW	SW
22	93	84	95	-	-	1.6	139	55	-	-	-	-	-	14	29	SW	SW	SW	WSW
23	83	80	-	-	-	-	-	-	-	-	-	-	-	14	32	SW	WSW	WSW	SW
24	89	80	-	-	-	-	-	-	-	-	-	-	-	11	29	WSW	WSW	WSW	W
25	85	71	-	-	-	0.2	24	9	-	-	-	-	-	7	25	N	NNE	N	NNW
26	82	64	-	-	-	1.2	151	8	-	-	X	-	-	11	40	NNE	W	NW	NE
27	86	82	-	-	-	<0.1	142	7	-	-	-	-	-	11	32	NE	NNW	NNE	NE
28	87	68	-	-	-	<0.1	312	13	-	-	-	-	-	11	29	NNE	NNE	NNE	N
29	89	82	247	-	-	0.1	512	22	-	-	-	-	-	7	25	SW	NNW	VR	SW
30	87	70	-	-	-	521	9 55'	41	1	5	-	-	-	18	47	SSE	SW	S	SSE
31	89	82	-	-	-	3.3	226	10	1	-	-	-	-	22	50	SW	SSW	SSW	SSW
M	86/		2166	1708	1001	34.4	7321				3	2	-	12					

\* = Sneeuw A = Hagel κ = Onweer <0.1 = Neerslag tot wijten aan mist of dauw

**APPENDIX G.**

**OVERVIEW OF MAINTENANCE -DREDGING ACTIVITIES**

**01/07/2005 – 31/12/2005**





<b>Dredging locations</b>								
	<i>Week 45</i>	<i>Week 46</i>	<i>Week 47</i>	<i>Week 48</i>	<i>Week 49</i>	<i>Week 50</i>	<i>Week 51</i>	<i>Week 52</i>
<i>Boudewijn van Cauwelaert sluis</i>	-	-	-	-	-	-	-	-
<i>Containerkaai noord</i>	-	-	-	-	-	-	-	-
<i>De Parel</i>	-	-	-	-	-	-	-	-
<i>Deurganckdok</i>	-	-	-	-	-	-	-	-
<i>Drempel van Frederik</i>	-	-	-	-	3.83	-	-	-
<i>Kallo sluis</i>	-	-	-	100.03	-	-	170.47	-
<i>Krankeloon</i>	-	-	-	-	-	-	-	-
<i>Drempel van Lillo</i>	-	-	-	-	3.73	-	-	-
<i>Lillo vaarwater plaar</i>	-	-	-	-	-	-	-	-
<i>Drempel van zandvliet</i>	14.34	77.77	94.30	27.21	29.79	-	-	-
<i>Zandvliet sluis</i>	218.45	-	-	-	-	-	-	-
<b>Dumping locations</b>								
	<i>Week 45</i>	<i>Week 46</i>	<i>Week 47</i>	<i>Week 48</i>	<i>Week 49</i>	<i>Week 50</i>	<i>Week 51</i>	<i>Week 52</i>
<i>Oosterweel</i>	124.11	13.29	-	49.11	3.79	-	78.85	-
<i>Plaat van Boomke</i>	-	-	-	-	-	-	-	-
<i>Schaar Ouden Doel</i>	-	53.64	94.32	25.25	29.80	-	-	-
<i>Vlakte van Hoboken</i>	-	-	-	1.94	-	-	-	-

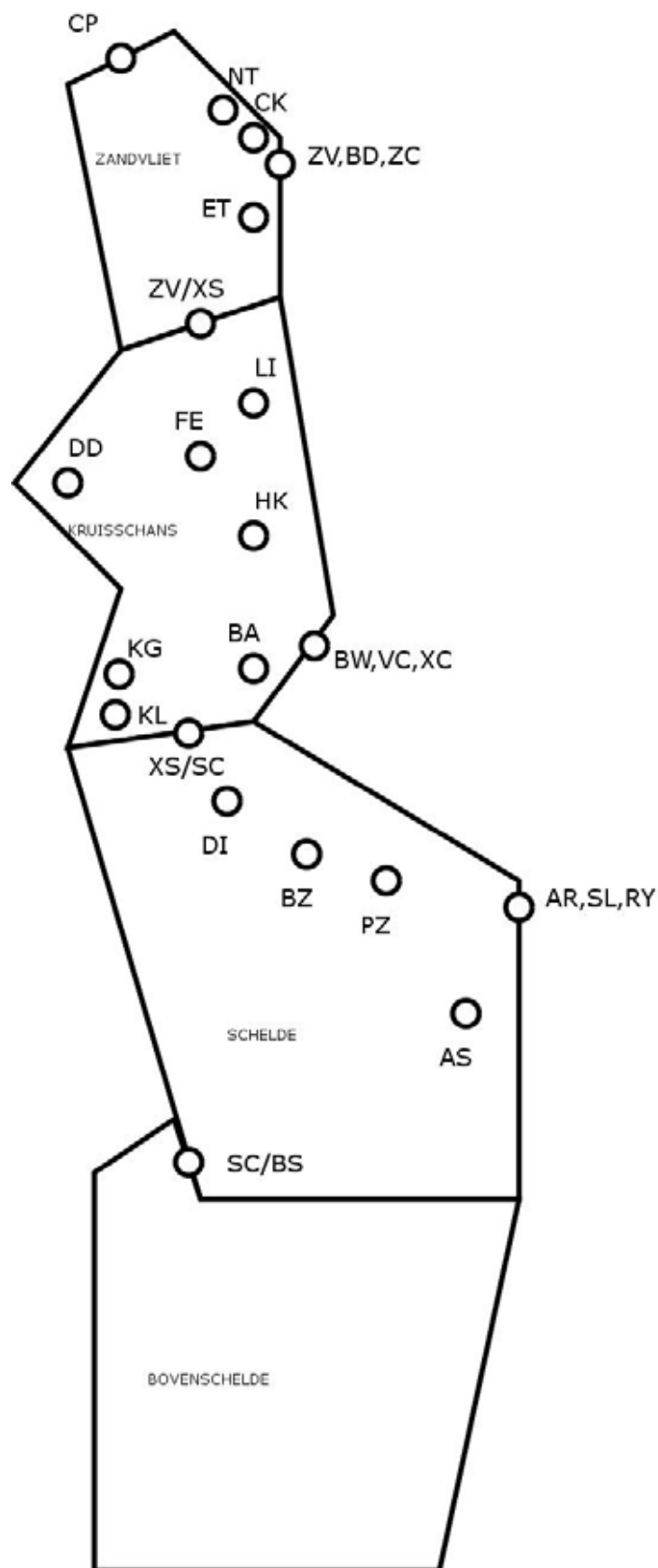
## **APPENDIX H.            NAVIGATION**



## H.1 Description of the areas

Area	Global description	Detailed description
1	Belgian border → Locks of Zandvliet – Berendrecht	Transit point CP → exit/entry point ZC, BD, ZV, NT, CK, ET or transit point ZV/XS
2	Locks of Zandvliet – Berendrecht → Deurganckdok	Transit point CP or entry/exit point ZC, BD, ZV, NT, CK, ET → transit point ZV/XS
3	Deurganckdok → Lock of Kallo	Transit point ZV/XS or entry/exit point DD → exit/entry point BA, BW, FE, HK, KG, KL, LI, VC, XC or transit point XS/SC
4	Lock of Kallo → Lock of Royers	Transit point XS/SC or entry/exit point DD, BA, BW, FE, HK, KG, KL, LI, VC, XC → entry/exit point AR, AS, BZ, DI, KT, PZ, RY, SL or transit point SC/BS

	<u>CID</u>	<u>MEANING</u>	<u>TYPE</u>
<b><u>GA</u></b>	GEBIED ANTWERPEN		
<b><u>SA</u></b>	Saeftinge		
	CP	Coördinatiepunt (blokgrens SA/ZV)	P
	CP2	Coördinatiepunt (blokgrens SA/ZV)	P
<b><u>SC</u></b>	Schelde		
	AR	Antwerpen Rede	E
	AS	Antwerpen Scheldekade/steiger	E
	AX	Antwerpen zonder detaillering	E
	BZ	BP Zwijndrecht	E
	DI	Haven Dredging International	E
	PZ	Polysar Zwijndrecht	E
	RY	Royerssluis	E
	SC/BS	Blokgrens SC/BS (boveneinde rede Antwerpen)	P
	SL	Sluizen Antwerpen Rechteroever	E
<b><u>XS</u></b>	Kruisschans		
	BA	Bayer Kallo	E
	BW	Boudewijnsluis	E
	DD	Deurganckdok	E
	FE	Steiger Fenol	E
	HK	Steiger Haltermann	E
	KG	Kallo geul	E
	KL	Kallosluis	E
	LI	Steiger Lillo	E
	VC	Van Cauwelaertsluis	E
	XC	Kruisschanssluiscomplex	E
	XS/SC	Blokgrens Kruisschans / Schelde	P
	XS/SC2	Blokgrens Kruisschans / Schelde	P
<b><u>ZV</u></b>	Zandvliet		
	BD	Berendrechtsluis	E
	CK	Containerkade Antwerpen	E
	ET	Europaterminal	E
	NT	Noordzeeterminal	E
	ZC	Zandvliet / Berendrecht sluiszencomplex	E
	ZV	Zandvliet sluis	E
	ZV/XS	Blokgrens Zandvliet / Kruisschans	P
	ZV/XS2	Blokgrens Zandvliet / Kruisschans	P



*Sketch of the different areas of navigation*

## H.2 Weekly data

<b>Week 27 (04/07/2005 – 11/07/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	79	77	2	3	76
	0 – 8 m	780	387	390	364	412
	8 – 12 m	186	0	186	94	92
	> 12 m	24	0	24	9	15
2	Unknown	55	54	1	18	37
	0 – 8 m	4	1	3	1	3
	8 – 12 m	1	0	1	0	1
	> 12 m	0	0	0	0	0
3	Unknown	5	4	1	0	5
	0 – 8 m	0	0	0	0	0
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	18	14	4	14	4
	0 – 8 m	3	3	0	2	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 28 (12/71/2005 – 18/07/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	49	44	5	6	43
	0 – 8 m	683	323	359	298	380
	8 – 12 m	177	0	177	91	86
	> 12 m	27	0	27	12	15
2	Unknown	48	47	1	17	31
	0 – 8 m	10	1	9	5	5
	8 – 12 m	1	0	1	0	1
	> 12 m	0	0	0	0	0
3	Unknown	1	1	0	0	1
	0 – 8 m	2	1	1	0	2
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	8	8	0	7	1
	0 – 8 m	3	1	2	1	2
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 29 (19/07/2005 – 25/07/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	44	44	0	1	43
	0 – 8 m	676	296	380	301	375
	8 – 12 m	173	0	173	88	85
	> 12 m	19	0	19	7	12
2	Unknown	59	59	0	22	37
	0 – 8 m	3	1	2	1	2
	8 – 12 m	4	0	4	3	1
	> 12 m	0	0	0	0	0
3	Unknown	1	1	0	0	1
	0 – 8 m	1	0	1	0	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	10	9	1	9	1
	0 – 8 m	1	0	1	0	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 30 (26/07/2005 – 01/08/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	59	57	1	4	55
	0 – 8 m	716	296	420	331	385
	8 – 12 m	162	0	162	88	74
	> 12 m	23	0	23	7	16
2	Unknown	49	49	0	21	28
	0 – 8 m	1	0	1	1	0
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
3	Unknown	3	2	1	1	2
	0 – 8 m	1	0	1	0	1
	8 – 12 m	1	0	1	0	1
	> 12 m	0	0	0	0	0
4	Unknown	14	14	0	14	0
	0 – 8 m	1	0	1	0	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 31 (02/08/2005 – 08/08/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	72	70	2	5	66
	0 – 8 m	664	324	340	299	362
	8 – 12 m	179	0	179	91	88
	> 12 m	23	0	23	10	13
2	Unknown	61	60	1	26	35
	0 – 8 m	8	2	6	3	5
	8 – 12 m	2	0	2	2	0
	> 12 m	0	0	0	0	0
3	Unknown	5	5	0	0	5
	0 – 8 m	1	1	0	0	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	16	16	0	16	0
	0 – 8 m	2	0	2	0	2
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 32 (09/08/2005 – 15/08/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	80	80	0	5	75
	0 – 8 m	731	344	384	340	386
	8 – 12 m	163	0	163	82	81
	> 12 m	30	0	30	11	19
2	Unknown	51	50	1	20	31
	0 – 8 m	12	2	10	6	6
	8 – 12 m	1	0	1	0	1
	> 12 m	0	0	0	0	0
3	Unknown	7	5	2	0	7
	0 – 8 m	4	1	3	0	4
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	15	14	1	14	1
	0 – 8 m	1	1	0	1	0
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 33 (16/08/2005 – 22/08/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	58	57	1	2	56
	0 – 8 m	781	354	426	348	431
	8 – 12 m	155	0	155	74	81
	> 12 m	23	0	23	10	13
2	Unknown	53	53	0	28	25
	0 – 8 m	4	1	3	2	2
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
3	Unknown	6	5	1	0	6
	0 – 8 m	2	0	2	1	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	15	15	0	14	1
	0 – 8 m	3	0	3	2	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 34 (23/08/2005 – 29/08/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	66	63	2	8	58
	0 – 8 m	763	378	382	345	414
	8 – 12 m	169	0	169	87	82
	> 12 m	27	0	27	13	14
2	Unknown	69	68	1	26	43
	0 – 8 m	5	1	4	2	3
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
3	Unknown	3	3	0	1	2
	0 – 8 m	2	0	2	0	2
	8 – 12 m	1	0	1	0	1
	> 12 m	0	0	0	0	0
4	Unknown	10	10	0	9	1
	0 – 8 m	3	0	3	2	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 35 (30/08/2005 – 05/09/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	67	67	0	2	65
	0 – 8 m	757	377	379	345	407
	8 – 12 m	171	0	171	85	86
	> 12 m	20	0	20	9	11
2	Unknown	60	59	1	20	40
	0 – 8 m	6	1	5	3	3
	8 – 12 m	2	0	2	2	0
	> 12 m	0	0	0	0	0
3	Unknown	6	6	0	2	4
	0 – 8 m	1	0	1	0	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	8	7	1	8	0
	0 – 8 m	2	0	2	0	2
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 36 (06/09/2005 – 12/09/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	60	58	2	8	52
	0 – 8 m	818	417	399	366	449
	8 – 12 m	158	0	158	75	83
	> 12 m	19	0	19	8	11
2	Unknown	59	59	0	26	33
	0 – 8 m	8	2	6	4	4
	8 – 12 m	2	0	2	0	2
	> 12 m	0	0	0	0	0
3	Unknown	1	1	0	0	1
	0 – 8 m	0	0	0	0	0
	8 – 12 m	1	0	1	0	1
	> 12 m	1	0	1	0	1
4	Unknown	10	10	0	8	2
	0 – 8 m	2	0	2	2	0
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0



<b>Week 37 (13/09/2005 – 19/09/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	98	93	5	4	93
	0 – 8 m	745	373	370	340	403
	8 – 12 m	166	0	166	81	85
	> 12 m	19	0	19	9	10
2	Unknown	49	49	0	13	36
	0 – 8 m	11	2	9	4	7
	8 – 12 m	1	0	1	0	1
	> 12 m	0	0	0	0	0
3	Unknown	6	6	0	0	6
	0 – 8 m	2	2	0	1	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	14	14	0	11	3
	0 – 8 m	2	1	1	0	2
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 38 (20/09/2005 – 26/09/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	93	88	4	4	88
	0 – 8 m	808	383	423	383	424
	8 – 12 m	187	0	187	92	95
	> 12 m	23	0	23	11	12
2	Unknown	51	50	1	21	30
	0 – 8 m	6	2	4	1	5
	8 – 12 m	3	0	3	1	2
	> 12 m	0	0	0	0	0
3	Unknown	6	6	0	3	3
	0 – 8 m	1	0	1	0	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	17	17	0	17	0
	0 – 8 m	4	1	3	2	2
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 39 (27/09/2005 – 03/10/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	56	50	3	11	45
	0 – 8 m	764	402	357	340	416
	8 – 12 m	148	0	148	70	78
	> 12 m	30	0	30	13	17
2	Unknown	51	50	1	19	32
	0 – 8 m	6	2	4	2	4
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
3	Unknown	11	10	1	1	10
	0 – 8 m	2	1	1	0	2
	8 – 12 m	2	0	2	0	2
	> 12 m	0	0	0	0	0
4	Unknown	12	11	1	11	1
	0 – 8 m	1	0	1	1	0
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 40 (04/10/2005 – 10/10/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	88	85	2	6	82
	0 – 8 m	734	375	359	329	402
	8 – 12 m	150	0	150	91	59
	> 12 m	21	0	21	6	15
2	Unknown	56	54	2	14	42
	0 – 8 m	5	0	5	1	4
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
3	Unknown	13	12	1	3	10
	0 – 8 m	4	2	2	0	4
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	20	20	0	20	0
	0 – 8 m	1	1	0	1	0
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 41 (11/10/2005 – 17/10/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	92	86	6	11	81
	0 – 8 m	820	403	416	364	453
	8 – 12 m	219	0	219	105	114
	> 12 m	17	0	17	8	9
2	Unknown	52	52	0	19	33
	0 – 8 m	4	0	4	2	2
	8 – 12 m	2	0	2	1	1
	> 12 m	0	0	0	0	0
3	Unknown	12	11	1	2	10
	0 – 8 m	2	1	1	1	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	16	16	0	15	1
	0 – 8 m	0	0	0	0	0
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 42 (18/10/2005 – 24/10/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	93	85	8	6	85
	0 – 8 m	770	405	363	357	411
	8 – 12 m	172	0	172	90	82
	> 12 m	20	1	19	9	11
2	Unknown	67	65	2	27	40
	0 – 8 m	10	5	5	4	6
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
3	Unknown	8	8	0	0	8
	0 – 8 m	4	4	0	0	4
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	18	18	0	18	0
	0 – 8 m	3	2	1	1	2
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 43 (25/10/2005 – 31/10/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	97	97	0	7	89
	0 – 8 m	685	328	354	300	385
	8 – 12 m	161	0	161	81	80
	> 12 m	21	0	21	9	12
2	Unknown	61	60	1	23	38
	0 – 8 m	6	1	5	3	3
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
3	Unknown	8	7	1	1	7
	0 – 8 m	3	1	2	0	3
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	11	10	1	10	1
	0 – 8 m	2	0	2	1	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 44 (01/11/2005 – 07/11/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	63	60	2	3	58
	0 – 8 m	692	344	348	304	386
	8 – 12 m	161	0	161	84	77
	> 12 m	21	0	21	7	14
2	Unknown	58	58	0	21	37
	0 – 8 m	5	0	5	4	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
3	Unknown	8	7	1	1	7
	0 – 8 m	4	2	2	1	3
	8 – 12 m	1	0	1	0	1
	> 12 m	0	0	0	0	0
4	Unknown	11	10	1	10	1
	0 – 8 m	3	1	2	3	0
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 45 (08/11/2005 – 14/11/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	87	85	1	7	79
	0 – 8 m	752	368	382	358	394
	8 – 12 m	176	0	176	87	89
	> 12 m	25	1	24	13	12
2	Unknown	50	50	0	22	28
	0 – 8 m	1	0	1	0	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
3	Unknown	4	3	1	1	3
	0 – 8 m	4	2	2	0	4
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	9	9	0	9	0
	0 – 8 m	4	0	4	3	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 46 (15/11/2005 – 21/11/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	81	79	1	6	75
	0 – 8 m	767	376	390	353	411
	8 – 12 m	169	0	169	84	85
	> 12 m	15	1	14	5	10
2	Unknown	73	73	0	35	38
	0 – 8 m	1	0	1	0	1
	8 – 12 m	1	0	1	0	1
	> 12 m	0	0	0	0	0
3	Unknown	13	13	0	0	12
	0 – 8 m	3	2	1	1	2
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	13	11	2	13	0
	0 – 8 m	6	0	6	2	4
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 47 (22/11/2005 – 28/11/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	112	111	1	3	109
	0 – 8 m	807	422	383	383	422
	8 – 12 m	170	0	170	84	86
	> 12 m	25	0	25	12	13
2	Unknown	50	50	0	23	26
	0 – 8 m	8	0	8	5	3
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
3	Unknown	16	16	0	0	16
	0 – 8 m	7	1	6	0	7
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	24	24	0	21	3
	0 – 8 m	1	0	1	0	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 48 (29/11/2005 – 05/12/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	83	83	0	0	83
	0 – 8 m	843	420	422	404	435
	8 – 12 m	188	1	187	92	96
	> 12 m	22	0	22	9	13
2	Unknown	73	72	1	37	36
	0 – 8 m	6	0	6	1	5
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
3	Unknown	17	17	0	3	14
	0 – 8 m	4	1	3	0	4
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	14	14	0	14	0
	0 – 8 m	2	0	2	0	2
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 49 (06/12/2005 – 12/12/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	111	109	2	9	101
	0 – 8 m	787	362	423	366	414
	8 – 12 m	195	0	195	99	96
	> 12 m	17	0	17	5	12
2	Unknown	57	56	1	25	32
	0 – 8 m	4	0	4	1	3
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
3	Unknown	18	18	0	2	16
	0 – 8 m	2	1	1	0	2
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	10	10	0	9	1
	0 – 8 m	1	0	1	0	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 50 (13/12/2005 – 19/12/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	84	84	0	3	80
	0 – 8 m	745	363	380	343	402
	8 – 12 m	155	0	155	74	81
	> 12 m	22	0	22	10	12
2	Unknown	39	38	1	15	24
	0 – 8 m	2	1	1	0	2
	8 – 12 m	0	0	0	0	0
	> 12 m	1	0	1	1	0
3	Unknown	18	18	0	1	17
	0 – 8 m	2	2	0	0	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	19	19	0	17	2
	0 – 8 m	3	0	3	2	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0

<b>Week 51 (20/12/2005 – 26/12/2005)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	67	65	2	3	62
	0 – 8 m	795	356	438	373	420
	8 – 12 m	181	0	181	99	82
	> 12 m	23	0	23	8	15
2	Unknown	50	49	1	18	32
	0 – 8 m	6	1	5	5	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
3	Unknown	14	13	1	0	14
	0 – 8 m	3	2	1	2	1
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	21	20	1	18	3
	0 – 8 m	1	0	1	1	0
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
<b>Week 52 (27/12/2005 – 02/01/2006)</b>						
<i>Area</i>	<i>Draught</i>	<i>Total</i>	<i>Inland navigation</i>	<i>Seagoing</i>	<i>Arrival</i>	<i>Departure</i>
1	Unknown	31	31	0	0	31
	0 – 8 m	589	245	344	258	331
	8 – 12 m	158	0	158	81	77
	> 12 m	19	0	19	10	9
2	Unknown	52	50	2	24	28
	0 – 8 m	4	0	4	2	2
	8 – 12 m	1	0	1	1	0
	> 12 m	0	0	0	0	0
3	Unknown	5	5	0	0	5
	0 – 8 m	5	1	4	0	5
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0
4	Unknown	27	26	1	25	2
	0 – 8 m	1	0	1	1	0
	8 – 12 m	0	0	0	0	0
	> 12 m	0	0	0	0	0